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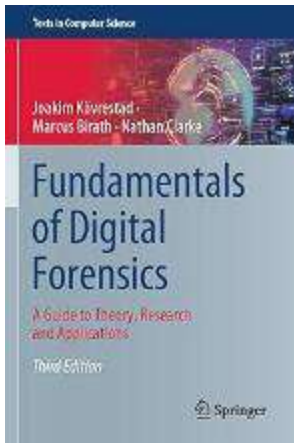
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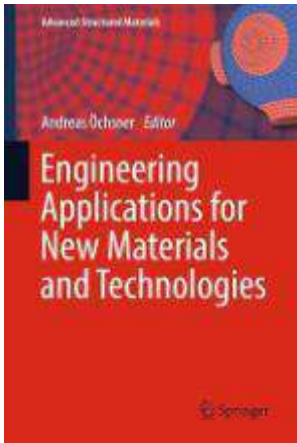
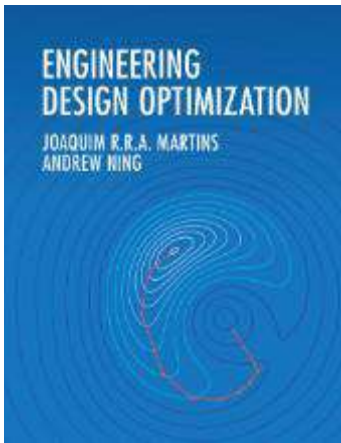
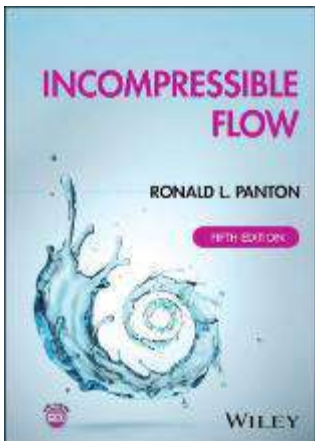


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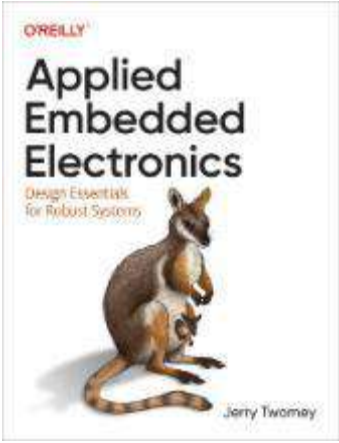
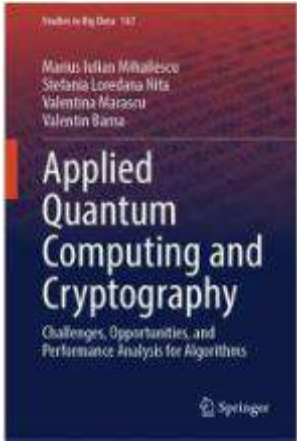
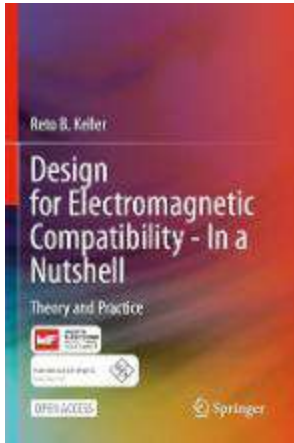
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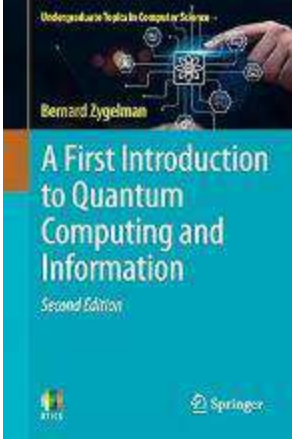
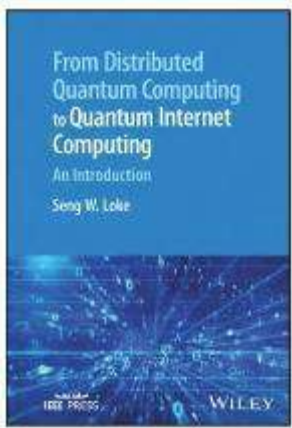
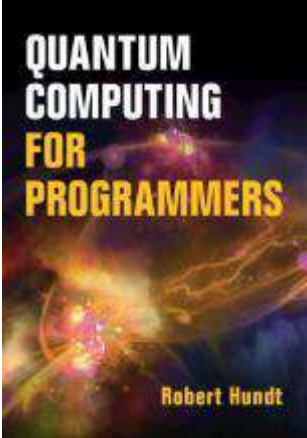
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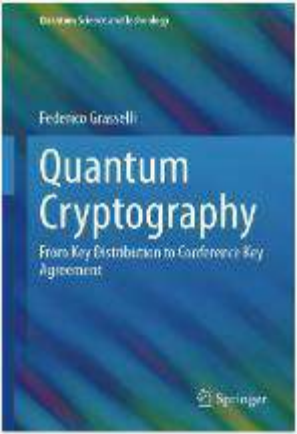
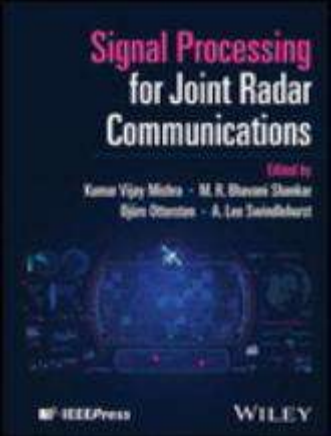
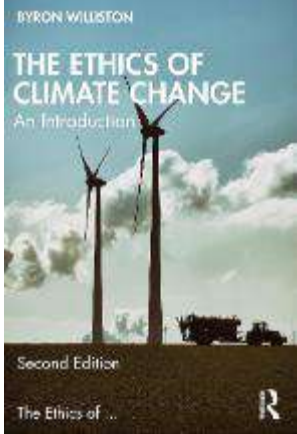
1		Fundamentals of digital forensics: a guide to theory, research and applications by Joakim Kavrestad, Marcus Birath and Nathan Clarke, 3rd ed., Cham: Springer, 2024. xiv, 298 p., Texts in computer science. Includes index (p. 295-298) ISBN: 9783031539091 Subject Terms: Digital forensics; Cyber-dependent crime; indexing and searching; Cracking; Autopsy forensics 681.3 KAV-F Barcode: 181469; CL Click here for more details.
Applied Mechanics		
2		Composite mechanics by Andreas Ochsner, Cham: Springer, 2023. xii, 204 p., Advanced structured materials. Includes index (p. 203 -204) ISBN: 9783031323898 Subject Terms: Micromechanics; Macromechanics; Unidirectional laminae; Asymmetric laminate; Plane elasticity element 620.17 OCH-C Barcode: 181382; CL Click here for more details.
3		Designing complex products with systems engineering processes and techniques by Vivek D. Bhise, 2nd ed., Boca Raton: CRC Press, 2023. xxxi, 551 p. Includes index (p. 543-551) ISBN: 9781032203713 Subject Terms: Decision making; Managing interfaces; Product development; Product evaluation; Program planning and management 658.511 BHI-D Barcode: 181479; CL Click here for more details.

4		Engineering applications for new materials and technologies edited by Andreas Ochsner, Cham: Springer, 2018. xii, 661 p., Advanced structured materials. ISBN: 9783319726960; 9783319891972 Subject Terms: Global warming; Degree of freedom; Electric propulsion system; Human behaviour; Emission of saline 620.2 -ENG Barcode: 181385; AM Click here for more details.
5		Engineering design optimization by Joaquim R. R. A. and Andrew Ning, Cambridge: Cambridge University Press, 2024. xiii, 637 p. Includes bibliography and index (p. 591-637) ISBN: 9781108833417 Subject Terms: Mathematical optimization; Computing derivatives; Gradient free optimization; Genetic algorithms; Convex optimization 519.863 MAR-E Barcode: 181494-181495; CL; AM Click here for more details.
6		Incompressible flow by Ronald L. Panton, 5th ed., Hoboken: Wiley, 2024. xii, 867 p. Includes index (p. 859-867) ISBN: 9781119984399 Subject Terms: Incompressible fluids; Potential flow; Stream function; Vorticity; Continuity equation 532 PAN-I Barcode: 181400; AM Click here for more details.

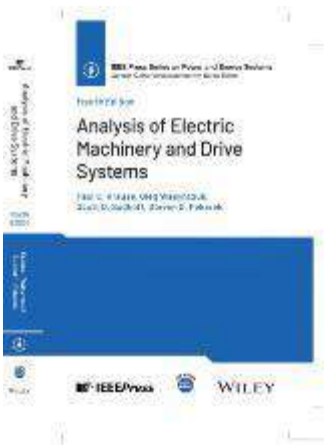
Applied Research in Electronics

7		Applied embedded electronics: design essentials for robust systems by Jerry Twomey, Sebastopol: O'Reilly Media, 2024. xxvi, 568 p. Includes index (p. 551-568) ISBN: 9789355428820 Subject Terms: Digital design; Terminology in MCU and MPU; Digital communication; Wireless serial interface; Peripheral devices 621.38:004 TWO-A Barcode: 181440; CL Click here for more details.
8		Applied quantum computing and cryptography: challenges, opportunity, and performance analysis for algorithms by Marius Iulian Mihailescu... (et al.), Cham: Springer, 2025. xv, 189 p., Studies in big data. Includes index (p. 187-189) ISBN: 9783031771446 Subject Terms: Classical cryptography; Modern cryptography; Quantum algorithms; Computing application; Quantum cryptography 530.145:004.056.55 -APP Barcode: 181462; CL Click here for more details.
9		Design for electromagnetic compatibility in a nutshell: theory and practice by Reto B. Keller, Cham: Springer, 2023. xii, 416 p. Includes index (p. 411-416) ISBN: 9783031141881 Subject Terms: Decibel; Wavelength; Frequency; Time-domain; Transmission lines 537.8 KEL-D Barcode: 181439; CL Click here for more details.
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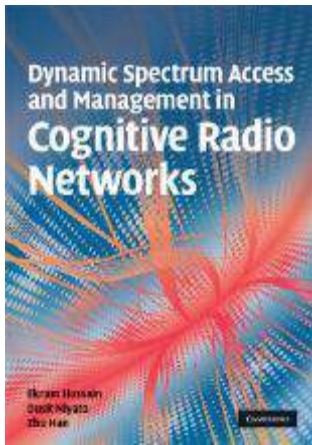
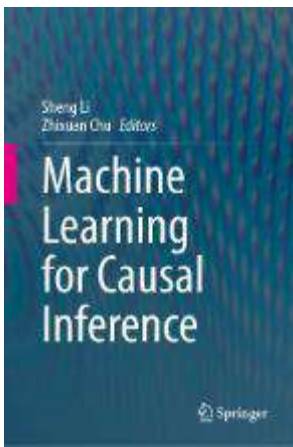
10		First introduction to quantum computing and information by Bernard Zygelman, 2nd ed., Cham: Springer, 2025. xviii, 279 p., Undergraduate topics in computer science. Includes index (p. 275-279) ISBN: 9783031664243 Subject Terms: Computer logic; Matrix representation; Quantum hardware; Error correction; Adiabatic theorem 530.145:004 ZYG-F Barcode: 181463; CL Click here for more details.
11		From distributed quantum computing to quantum internet computing: an introduction by Seng W. Loke, New Jersey: IEEE Press, 2024. xiv, 194 p. Includes index (p. 193-194) ISBN: 9781394185511 Subject Terms: Electronic data processing; Quantum communication; Quantum computing; Distributed quantum computing; Quantum circuits 530.145:004 LOK-F Barcode: 181460; CL Click here for more details.
12		Quantum computing for programmers by Robert Hundt, New York: Cambridge University Press, 2022. xiii, 360 p. Includes references and index (p. 335-360) ISBN: 9781009098175 Subject Terms: Mathematical minimum; No-cloning theorem; Gate equivalences; Circuits; Quantum teleportation 530.145:004.43 HUN-Q Barcode: 181461; CL Click here for more details.

13		Quantum cryptography: from key distribution to conference key agreement by Federico Grasselli, Cham: Springer, 2021. xvii,152 p., Quantum science and technology. ISBN: 9783030643591 Subject Terms: Quantum key distribution; Information-theoretic security; Photons; Multipartite entanglement; Quantum information theory 530.145:004.056.55 GRA-Q Barcode: 181441; CL Click here for more details.
14		Signal processing for joint radar communications edited by Kumar Vijay Mishra... (et al.), Hoboken: Wiley, 2024. xxvii, 420 p. Includes index (p. 403-420) ISBN: 9781119795537 Subject Terms: Legitimate receivers; Power consumption; Machine learning; Radar communication; Covariance vector 621.396.9 - SIG Barcode: 181401; CARE Click here for more details.
Atmospheric Sciences		
15		Ethics of climate change: an introduction by Byron Williston, 2nd ed., Oxon: Routledge, 2024. x, 241 p. Includes index (p. 236 - 241) ISBN: 9781032257662 Subject Terms: Geoengineering; Precautionary policy; International justice; Intergenerational justice; Climate change denial 551.583:17 WIL-E Barcode: 181345; CL Click here for more details.

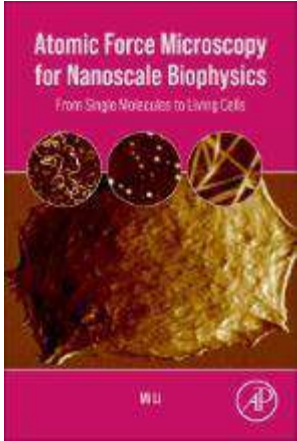
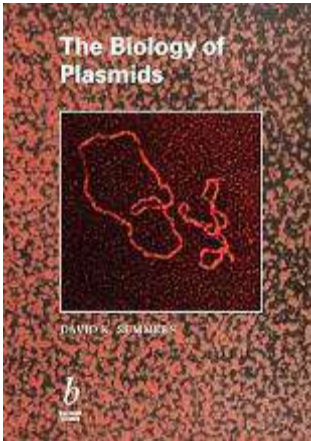
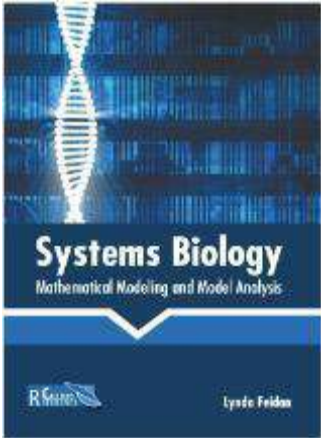
Automotive Research and Tribology

16		Analysis of electric machinery and drive systems by Paul C. Krause... (et al.), 4th ed., New Jersey: IEEE Press, 2025. xvii, 462 p., IEEE press series on power and energy systems. Includes index (p. 440-462) ISBN: 9781394293865 Subject Terms: Electromagnetic forces; Transformation equations; Induction machine; Brushless DC machine; Voltage and torque equations 621.313 -ANA Barcode: 181399; CL Click here for more details.
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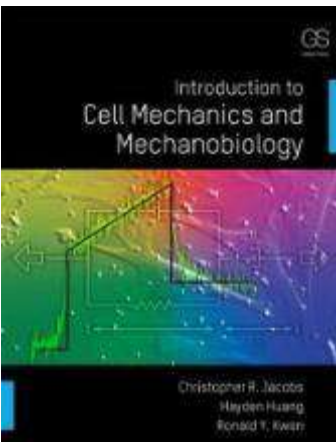
Bharti School of Telecommunication Technology and Management

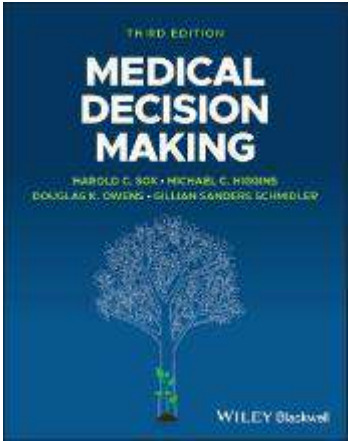
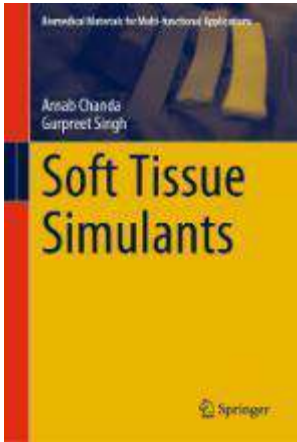
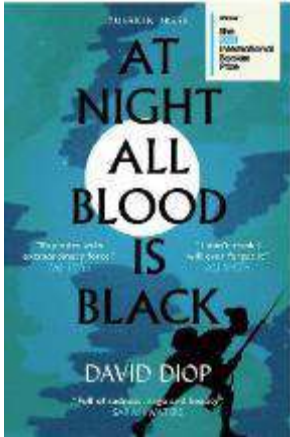
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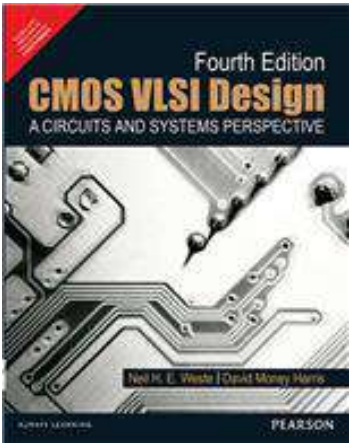
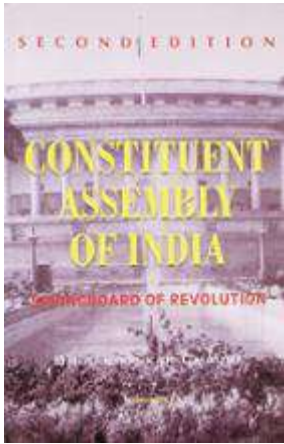
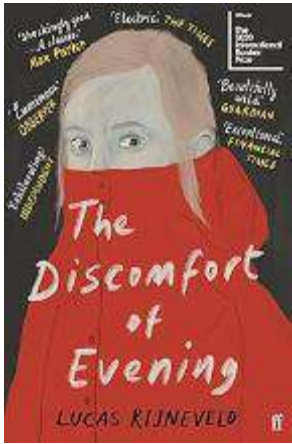
Biochemical Engineering and Biotechnology

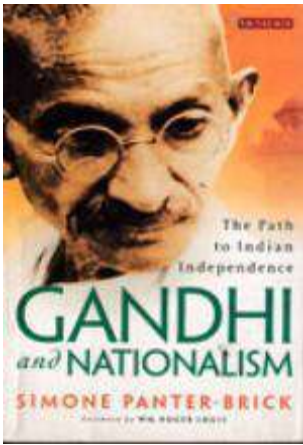
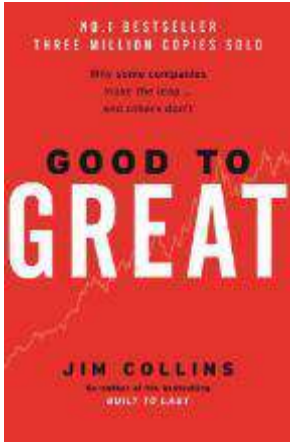
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20		Biology of plasmids by David K. Summers, Oxford: Wiley-Blackwell, 1996. ix, 157 p. Includes index (p. 155-157) ISBN: 9780632034369 Subject Terms: Bacterial plasmids; Plasmid inheritance; Plasmid dissemination; Plasmid biology; Anatomy 579.25 SUM-B Barcode: 181471; CL Click here for more details.
21		Systems biology: mathematical modeling and model analysis edited by Lynda Feidan, New York: Callisto Reference, 2019. vii, 205 p. Includes index (p. 204-205) ISBN: 9781641162203 Subject Terms: Bayesian analysis; Computational method; Metabolic flux analysis; Advection-diffusion theory; Kinetic stability analysis 577.2:51 -SYS Barcode: 181472; CL Click here for more details.

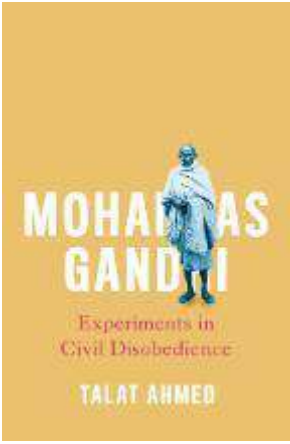
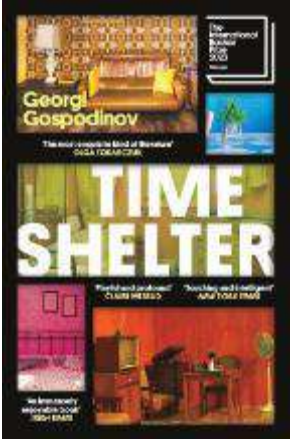
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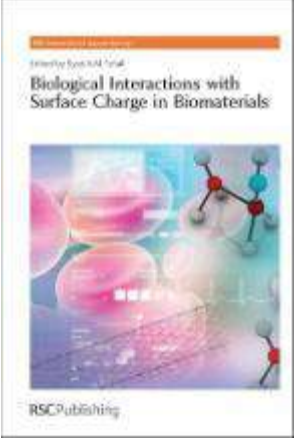
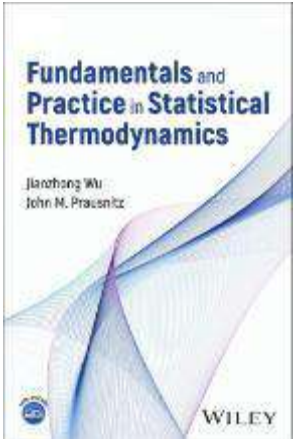
22		Experimental methods in biomechanics by John H. Challis, Cham: Springer, 2021. xiv, 305 p. Includes index (p. 299-305) ISBN: 9783030522582 Subject Terms: Motion analysis; Electromyography; Related technologies; Anthropometry; Kinematics 611/612:167.23 CHA-E Barcode: 181343; CBME Click here for more details.
23		Handbook of texture analysis edited by Ayman EL-Baz, Mohammed Ghazal and Jasjit S. Suri, Boca Raton: CRC Press, 2024. Vol. 1: xxi, 203 p. Vol. 2: xxi, 248 p. Vol. 1: Include index (p.197-203); Vol. 2: Include index (p.243-248) ISBN: 9780367483418 Subject Terms: Concept of entropy - Handbooks, manuals, etc.; Alzheimer's disease - Handbooks, manuals, etc.; Neuroradiology - Handbooks, manuals, etc.; Prostate cancer - Handbooks, manuals, etc.; Tumor segmentation - Handbooks, manuals, etc. RL-HB 616-073:004.85(021) -HAN Barcode: 181391-181392; REF Click here for more details.
24		Introduction to cell mechanics and mechanobiology by Christopher R. Jacobs, Hayden Huang and Ronald Y. Kwon, New York: Garland Science, 2013. xvi, 351 p. Includes index (p. 343-351) ISBN: 9780815344254 Subject Terms: Biomechanical phenomena; Cell physiology; Cell biology; Biochemistry; Life sciences 576.32 JAC-I Barcode: 181339; CL Click here for more details.
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25		Medical decision making by Harold C. Sox... (et al.), 3rd ed., Hoboken: Wiley, 2024. xiv, 348 p. Includes index (p. 340 - 348) ISBN: 9781119627807 Subject Terms: Differential diagnosis; Probability; Survival models; Decision trees; Markov models 61:519.816 -MED Barcode: 181344; CL Click here for more details.
26		Soft tissue simulants by Arnab Chanda and Gurpreet Singh, Singapore: Springer, 2024. xiv, 146 p., Biomedical materials for multi-functional applications. Includes references (p. 144-146) ISBN: 9789819730599 Subject Terms: Hyper elastic modeling; Mechanical properties; Skeletal muscle tissue; Silicone rubber; Biomechanical studies 57.086.8:616-77 CHA-S Barcode: 181340; CL Click here for more details.
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27		At night all blood is black by David Diop and translated by Anna Moschovakis, London: Pushkin Press, 2018. 145 p. ISBN: 9781782277538 Subject Terms: Novel; Fiction; War story; World War I; Colonialism 82-31 DIO-A Barcode: 181417; CL Click here for more details.

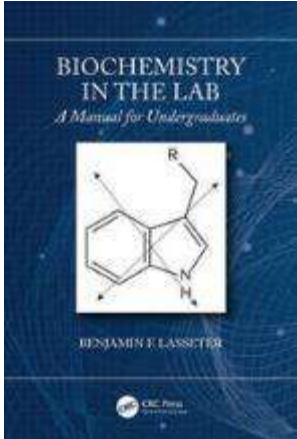
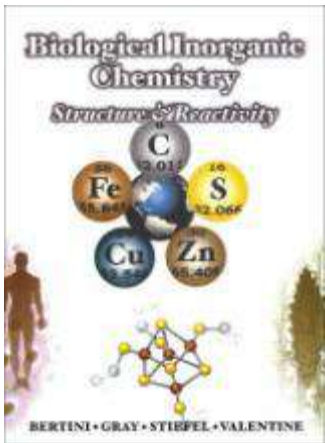
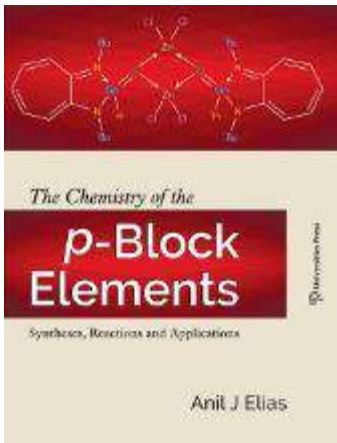
28		CMOS VLSI design: a circuits and systems perspective by Neil H. E. Weste and David Money Harris, 4th ed., Noida: Pearson, 2025. xxv, 838 p. Includes reference and index (p. 785-838) ISBN: 9789332542884 Subject Terms: Robustness; Circuit simulation; Array subsystems; Delay; MOS transistor theory 621.382 WES-C Barcode: 181404-181406; CL; TB Click here for more details.
29		Constituent Assembly of India: springboard of revolution by Shibani Kinkar Chaube, 2nd ed., New Delhi: Manohar Publishers and Distributors, 2025. 264 p. Includes bibliography and index (p. 247 - 264) ISBN: 9788173043659 Subject Terms: Indian problem; Interim government; Indian politics; Minority rights; Social structure 321.1(540) CHA-C Barcode: 181351; CL Click here for more details.
30		Discomfort of evening by Lucas Rijneveld and translated by Michele Hutchison, London: Faber and Faber, 2020. 282 p. ISBN: 9780571349371 Subject Terms: Novel; Fiction story; Poetic language; Child narrator; Psychological acuity 82-31 RIJ-D Barcode: 181418; CL Click here for more details.

31		Flights by Olga Tokarczuk and translated by Jennifer Croft, London: Fitzcarraldo Editions, 2025. 404 p. ISBN: 9781910695821 Subject Terms: Fiction; Travel; Motion and migration; Humankind; Literature 82-311.8 TOK-F Barcode: 181470; CL Click here for more details.
32		Gandhi and nationalism: the path to Indian independence by Simone Panter-Brick, New Delhi: Viva Books, 2012. xiii, 225 p. Includes bibliography and index (p. 214 - 225) ISBN: 9788130922546 Subject Terms: Swaraj; War and non-violence; One-party system; Voice of India; Rebellion 323.1(540) PAN-G Barcode: 181352; CL Click here for more details.
33		Good To great: why some companies make the leap and others don't by Jim Collins, London: Penguin Random House, 2001. xiii, 300 p. Includes index (p. 287-300) ISBN: 9780712676090 Subject Terms: Enemy of great; Leadership; Facts; Culture of discipline; Doom loop 658:005.21 COL-G Barcode: 181474; CL Click here for more details.
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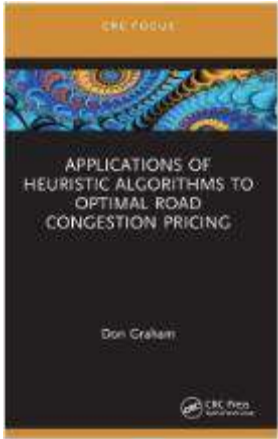
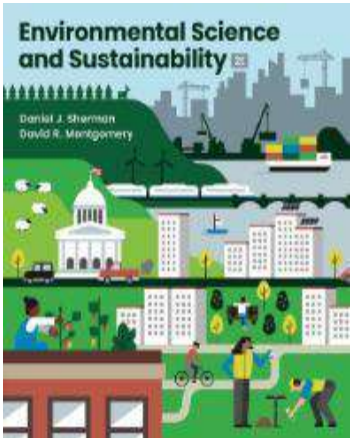
34		Mohandas Gandhi: experiments in civil disobedience by Talat Ahmed, London: Pluto Press, 2019. xiii, 193 p., Revolutionary lives. Includes index (p. 185-193) ISBN: 9780745334288 Subject Terms: Indian independence; British empire; Contradictions in politics; Revolutionary lives; State and corporate power 929GAN AHM-M Barcode: 181433; CL Click here for more details.
35		Time shelter by Georgi Gospodinov and translated by Angela Rodel, London: Weidenfeld and Nicolson, 2023. 302 p. ISBN: 9781474623070 Subject Terms: Alzheimer's disease; Dementia; Science fiction; Health facilities; Nostalgia 82-31 GOS-T Barcode: 181489; CL Click here for more details.
36		Topics in fixed point theory edited by Saleh Almezal, Qamrul Hasan Ansari and Mohamed Amine Khamsi, Cham: Springer, 2014. xi, 304 p. Includes index (p. 301-304) ISBN: 9783319015859 Subject Terms: Banach contraction; Ekeland's variational principle; Modular function; Ordered sets; Fixed point theorems 515.126.4 -TOP Barcode: 181446; CL Click here for more details.

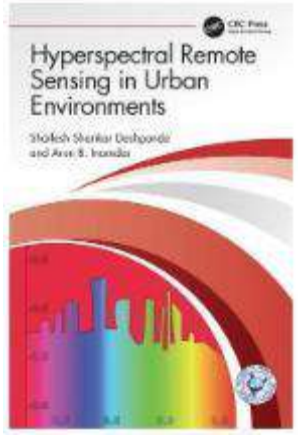
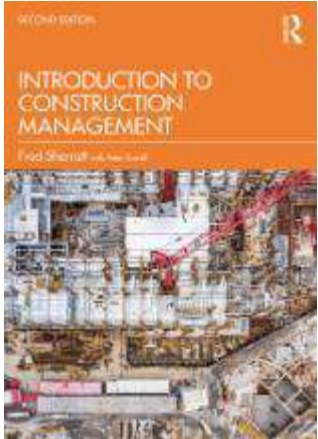
37		Vegetarian: a novel by Han Kang and translated by Deborah Smith, London: Granta Publications, 2024. 183 p. ISBN: 9781846276033 Subject Terms: Domestic fiction; Cultural heritage; Fiction; Dreams; Families 82-311.2 KAN-V Barcode: 181490; CL Click here for more details.
Chemical Engineering		
38		Biological interactions with surface charge in biomaterials edited by Syed A. M., Tofail, Cambridge: Royal Society of Chemistry, 2012. xiv, 262 p., RSC nanoscience and nanotechnology. Includes index (p. 249-262) ISBN: 9781849731850 Subject Terms: Electrical modification; Photocatalytic; Surface charge measurement; Immobilization of enzymes; Fibrous proteins 544.7:616-7 -BIO Barcode: 181412; CL Click here for more details.
39		Fundamentals and practice in statistical thermodynamics by Jianzhong Wu and John M. Prausnitz, Hoboken: Wiley, 2024. xxi, 746 p. Includes index (p. 735-746) ISBN: 9781394161423 Subject Terms: Microscopic uncertainty; Entropy; Statistical thermodynamic; MD simulation; Canonical Ensemble 536.75 WU-F Barcode: 181396; CHE Click here for more details.

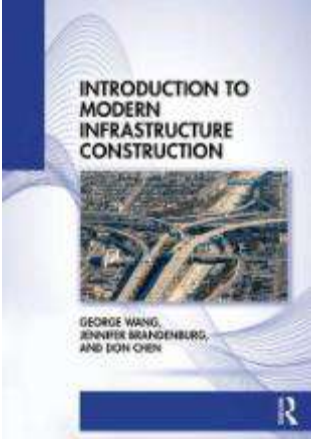
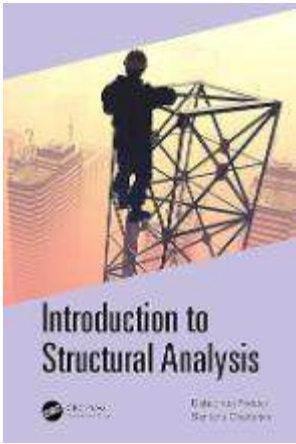
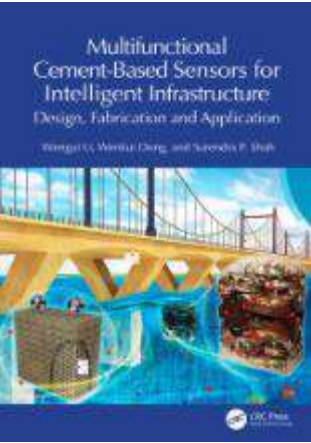
Chemistry

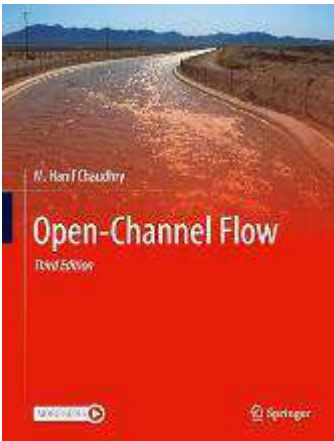
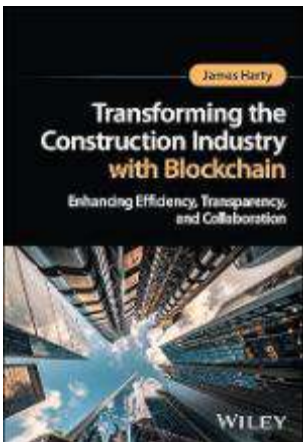
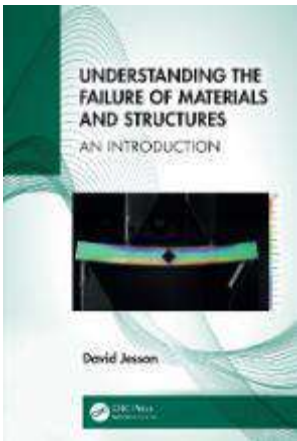
40		Biochemistry in the lab: a manual for undergraduates by Benjamin F. Lasseter, New York: CRC Press, 2020. xiii, 187 p. Includes index (p. 185-187) ISBN: 9781138589964 Subject Terms: Chromatography; Kinetics; Biomolecules; Protein concentration; Hemoglobin 577.1(021) LAS-B Barcode: 181480; CHY Click here for more details.
41		Biological inorganic chemistry: structure and reactivity by Ivano Bertini... (et al.), California: University Science Books, 2007. xxv, 739 p. Includes index (p. 731-739) ISBN: 9781938787966 Subject Terms: Metal ions and proteins; Biominerals and biomineralization; Metals in medicine; Hydrolytic chemistry; Metallothioneins 546:577.1 -BIO Barcode: 181454; CL Click here for more details.
42		Chemistry of the p-block elements: syntheses, reactions and applications by Anil J. Elias, Hyderabad: Universities Press, 2019. xxiii, 624 p. Includes index (p. 618-624) ISBN: 9789386235718 Subject Terms: Chemical compounds; Chemical technology; Chemistry of silicon; Periodic trends; Chemistry of aluminum 546.1/.9 ELI-C Barcode: 181449-181453; TB Click here for more details.

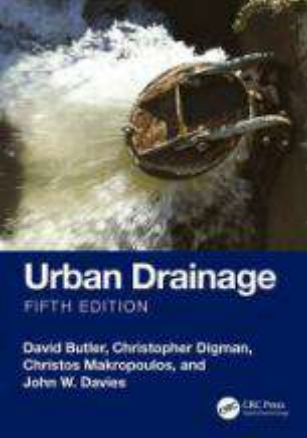
Civil and Environmental Engineering

43		Applications of heuristic algorithms to optimal road congestion pricing by Don Graham, New York: CRC Press, 2024. ix, 141 p. Includes index (p. 139-141) ISBN: 9781032415666 Subject Terms: Model formulation; Congestion pricing; Literature review; Case studies; Congestion charge 656.021.24 GRA-A Barcode: 181485; CL Click here for more details.
44		Construction company management by Hasan Abid, Asheem Shrestha and Kumar Neeraj Jha, Oxon: Routledge, 2025. xi, 270 p. Includes index (p. 258-270) ISBN: 9781032119564 Subject Terms: Construction economics; Industrial economics; Strategic management; Leadership; Construction industry 69.005.7 HAS-C Barcode: 181326; CL Click here for more details.
45		Environmental science and sustainability by Daniel J. Sherman and David R. Montgomery, 2nd ed., New York: W. W. Norton and Company, 2024. xxxv, 597 p. Includes index (p. I-1-I-15) ISBN: 9781324043485 Subject Terms: Ethics; Economics and policy; Conservation; Human population; Environmental health 502.131.1 SHE-E Barcode: 181491; CL Click here for more details.

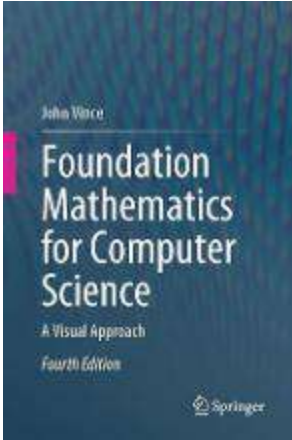
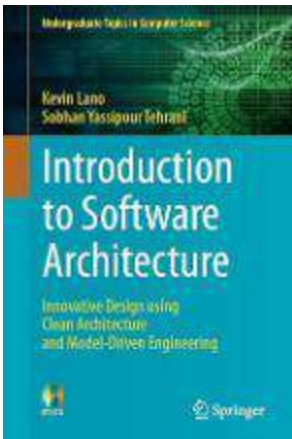
46		Fibre-reinforced concretes for high-performance structures: building a more sustainable future by Andreas Lampropoulos, Leeds: Emerald Publishing, 2024. xi, 176 p. Includes index (p. 173-176) ISBN: 9780727765567 Subject Terms: Materials selection; Mechanical performance; UHPFRC elements; Environmental consideration; Design 624.012.45 LAM-F Barcode: 181492; CL Click here for more details.
47		Hyperspectral remote sensing in urban environments by Shailesh Shankar Deshpande and Arun B. Inamdar, Boca Raton: CRC Press, 2024. xvii, 282 p. Includes index (p. 275-282) ISBN: 9781032359113 Subject Terms: Hyperspectral imaging; Spectral-spatial data; Environmental analysis; Material detection; Narrow spectral bands 528.8:711.4 DES-H Barcode: 181427; CL Click here for more details.
48		Introduction to construction management by Fred Sherratt and Peter Farrell, 2nd ed., Oxon: Routledge, 2023. x, 460 p. Includes index (p. 451-460) ISBN: 9781032007441 Subject Terms: Building - Superintendence; Construction industry; Environmental management; Health and safety management; Quality management 69:005.8 SHE-I Barcode: 181324; CL Click here for more details.

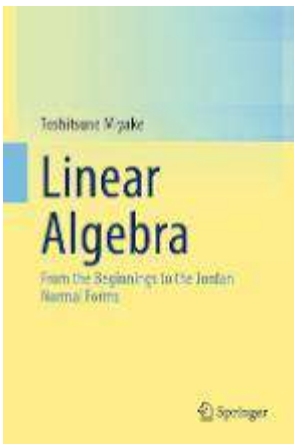
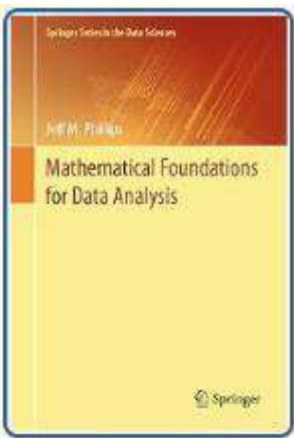
49		Introduction to modern infrastructure construction by George Wang, Jennifer Brandenburg and Don Chen, New York: Routledge, 2025. xvii, 341 p. Includes index (p. 339-341) ISBN: 9781032051598 Subject Terms: Asphalt paving; Pavement design; Geometric of design; Composing materials; Review of soils 624/625 WAN-I Barcode: 181325; CL Click here for more details.
50		Introduction to structural analysis by Debabrata Podder and Santanu Chatterjee, Boca Raton: CRC Press, 2022. xv, 496 p. Includes bibliography and index (p. 489 - 496) ISBN: 9780367532734 Subject Terms: Structure and loads; Indeterminacy and stability of structure; Plane trusses; Space trusses; Symmetric structures 624.04 POD-I Barcode: 181328; CL Click here for more details.
51		Multifunctional cement-based sensors for intelligent infrastructure: design, fabrication and application by Wengui Li, Wenkui Dong and Surendra P. Shah, Boca Raton: CRC Press, 2025. x, 308 p. Include index (p. 299-308) ISBN: 9781032662848 Subject Terms: Rheological properties; Electrochemical impedance; Mechanical properties; Shrinkage deformation; Phase analysis 666.94:681.586 LI-M Barcode: 181386; CL Click here for more details.

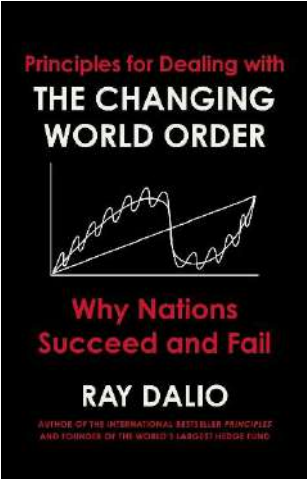
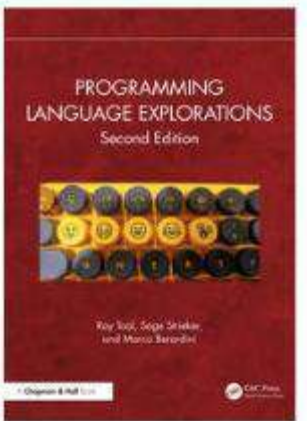
52		Open-channel flow by M. Hanif, Chaudhry, 3rd ed., Cham: Springer, 2022. xvii, 563 p. Includes index (p.543-563) ISBN: 9783030964498 Subject Terms: Civil engineering; Computational intelligence; Engineering fluid dynamics; Geoengineering; Pollution 532.53 CHA-O Barcode: 181329; CL Click here for more details.
53		Transforming the construction industry with blockchain: enhancing efficiency, transparency, and collaboration by James Harty, Hoboken: Wiley, 2025. xiii, 258 p. Includes references and index (p. 241-258) ISBN: 9781394216383 Subject Terms: Data communication; Digitalisation; Generative architecture; Artificial intelligence; Internet of things 69:004 HAR-T Barcode: 181493; CL Click here for more details.
54		Understanding the failure of materials and structures: an introduction by David Jesson, Boca Raton: CRC Press, 2025. xi, 159 p. Includes index (p. 157 - 159) ISBN: 9780367368401 Subject Terms: Materials science; Statistics; Measure strain; Biomechanics; Strain rate dependence 620.17:624.04 JES-U Barcode: 181387; CL Click here for more details.

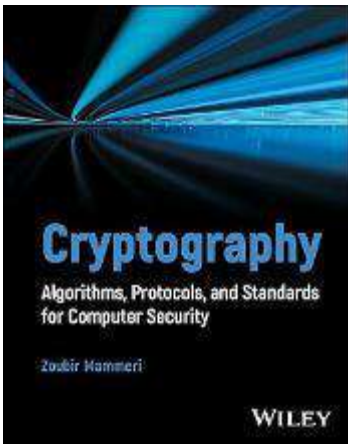
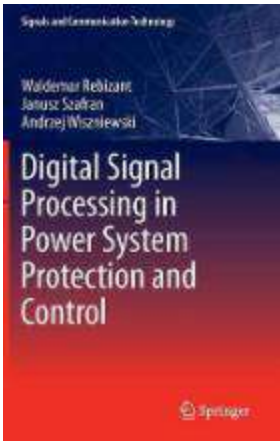
55		Urban drainage by David Butler... (et al.), 5th ed., Boca Raton: CRC Press, 2025. xxxv, 612 p. Includes index (p. 607 - 612) ISBN: 9781032513317 Subject Terms: Water quality; Stormwater; Wastewater; Hydraulics; Sustainable drainage systems 628.2 -URB Barcode: 181322; CL Click here for more details.
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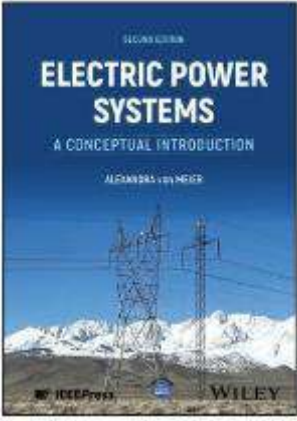
Computer Science and Engineering

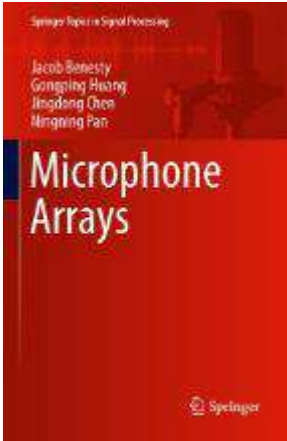
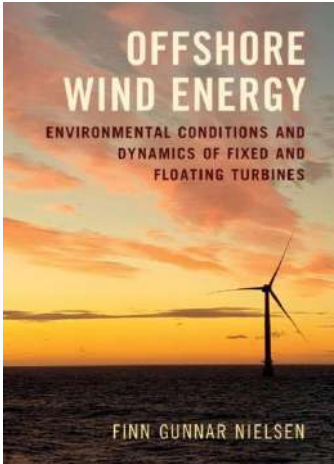
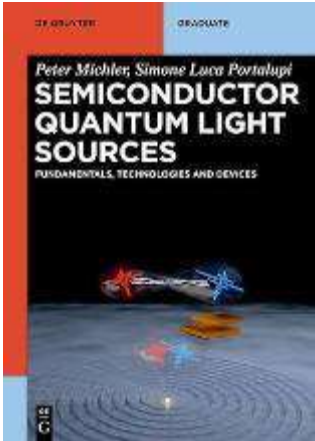
56		Foundation mathematics for computer science: a visual approach by John Vince, 4th ed., Cham: Springer, 2024. xxv, 638p. Includes index (p.629-638) ISBN: 9783031665486 Subject Terms: Algebra; Combinatorics; Trigonometry; Determinants; Analytic geometry 51:004 VIN-F Barcode: 181358; CL Click here for more details.
57		Introduction to software architecture: innovative design using clean architecture and model-driven engineering by Kevin Lano and Sobhan Yassipour Tehrani, Cham: Springer, 2023. 267 p., Undergraduate topics in computer science. Includes index (p. 263 -267) ISBN: 9783031441424 Subject Terms: Mobile application architectures; Web application; Architectural styles; Complex connectors; Embedded systems architectures 681.3 LAN-I Barcode: 181359; CL Click here for more details.

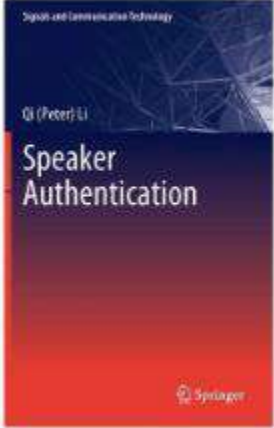
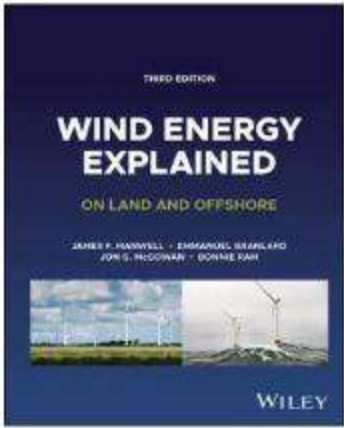
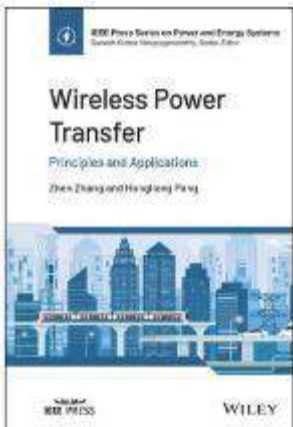
58		Linear algebra in data science by Peter Zizler and Roberta La Haye, Cham: Birkhauser, 2024. viii, 199 p., Compact textbooks in mathematics. ISBN: 9783031549076 Subject Terms: Artificial intelligence - Data processing; Computer science - Mathematics; Data science; Mathematical applications in computer science; Neural networks 512.64:004.6 ZIZ-L Barcode: 181360; CL Click here for more details.
59		Linear algebra: from the beginnings to the Jordan normal forms by Toshitsune Miyake, Singapore: Springer, 2022. xvii, 361 p. Includes Index (p. 357-361) ISBN: 9789811669934 Subject Terms: Determinants; Vector spaces; Inner product spaces; Jordan normal forms; Hermitian inner product space 512.64 MIY-L Barcode: 181323; CL Click here for more details.
60		Mathematical foundations for data analysis by Jeff M. Phillips, Cham: Springer, 2021. xvii, 285 p., Springer series in the data sciences. Includes index (p. 283-287) ISBN: 9783030623401 Subject Terms: Variance; Sampling and estimation; Linear independence; Regression; Data matrices 519.5.004.6 PHI-M Barcode: 181467; CL Click here for more details.
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61		Principles for dealing with the changing world order by Ray Dalio, London: Simon and Schuster, 2021. 557 p. ISBN: 9781471196690 Subject Terms: Balance of power; Macroeconomics; Economic development - History; Economic policy; Business cycles 339.9:32 DAL-P Barcode: 181457-181458; CL; CSE Click here for more details.
62		Programming language explorations by Ray Toal, Sage Strieker and Marco Berardini, 2nd ed., Boca Raton: CRC Press, 2024. xviii, 389 p. Includes bibliography and index (p. 377-389) ISBN: 9781032110844 Subject Terms: Computer programming; Python; Java script;Java; Web development 681.3 TOA-P Barcode: 181468; CL Click here for more details.
63		Software architectures: topics usually missed in textbooks by Manfred Nagl and Bernhard Westfechtel, Cham: Springer, 2024. xii, 332 p. Includes index (p. 329-332) ISBN: 9783031513343 Subject Terms: Software engineering; Software design; Software processes; Software development; Software description languages 681.3 NAG-S Barcode: 181361; CL Click here for more details.

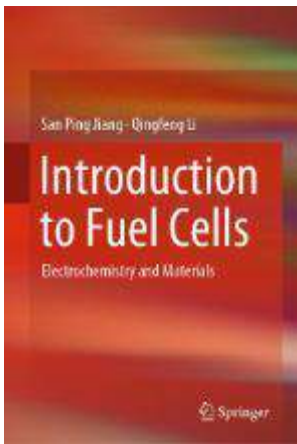
64		Software design by example: a tool-based introduction with python by Greg Wilson, Boca Raton: CRC Press, 2024. xi, 330 p. Includes index (p. 327 - 330) ISBN: 9781032725215 Subject Terms: Matching patterns; Parsing text; Running tests; HTML validator; Code linter 681.3 WIL-S Barcode: 181362; CL Click here for more details.
Electrical Engineering		
65		Cryptography: algorithms, protocols, and standards for computer security by, Zoubir Mammeri, Hoboken: Wiley, 2024. xxii, 392 p. Includes index (p. 580-592) ISBN: 9781394207480 Subject Terms: Networking; Hash function; Elliptic curve cryptography; Kerberos; Symmetric ciphering 681.188 MAM-C Barcode: 181429; CL Click here for more details.
66		Digital signal processing in power system protection and control by Waldemar Rebizant, Janusz Szafran and Andrzej Wiszniewski, London: Springer, 2011. xv, 316 p., Signals and communication technology. Includes index (p. 313-316) ISBN: 9780857298010 Subject Terms: Algorithms; Electrical machines and networks; Artificial intelligence; Digital techniques; Power system protection 621.391:621.31 REB-D Barcode: 181488; CL Click here for more details.

67		Electric power systems: a conceptual introduction by Alexandra Von Meier, 2nd ed., New Jersey: IEEE Press, 2024. xxxi, 507 p. Includes index (p. 493-507) ISBN: 9781394241002 Subject Terms: Electromagnetic induction; Current; Circuit fundamentals; Electric and magnetic fields; Transformers 621.311 MEI-E Barcode: 181430; CL Click here for more details.
68		Fundamentals of the optics of materials: tutorial and problem solving by Vladimir I. Gavrilenko and Volodymyr S. Ovechko, Singapore: Jenny Stanford Publishing, 2024. xvi, 373 p. Includes bibliography and index (p. 349-373) ISBN: 9789814877930 Subject Terms: Condensed matter physics; Surface science; Electron energy structure; Plasma optics; Light interaction 535.2 GAV-F Barcode: 181478; CL Click here for more details.
69		Infrastructure asset management with power system applications by Lina Bertling Tjernberg, Boca Raton: CRC Press, 2018. xlviii, 533 p. Includes references and index (p. 499-533) ISBN: 9781498708678 Subject Terms: Asset; Energy system; RCAM analysis; Electric power system; Cost benefit analysis 621.31:658.152 TJE-I Barcode: 181432; CL Click here for more details.

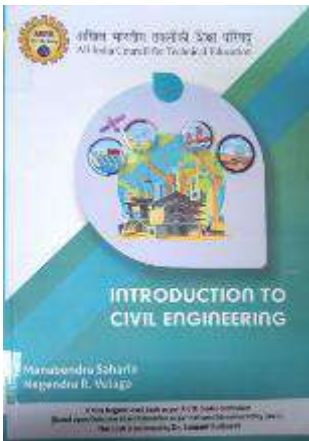
70		Microphone arrays by Jacob Benesty...(et al.), Cham: Springer, 2024. ix, 228 p., Springer topics in signal processing. Includes index (p. 225-228) ISBN: 9783031369735 Subject Terms: Dimensionality reduction; Low-rank beamforming; Binaural beamforming; Speech enhancement; Robust beamforming 621.391.81 -MIC Barcode: 181486; CL Click here for more details.
71		Offshore wind energy: environmental conditions and dynamics of fixed and floating turbines by Finn Gunnar Nielsen, Cambridge: Cambridge University Press, 2024. xii, 382 p. Includes references and index (p. 368-382) ISBN: 9781009341431 Subject Terms: Offshore wind power plants; Wind turbines; Offshore environment; Wind energy and wind loads; Linear dynamic 621.548 NIE-O Barcode: 181445; CL Click here for more details.
72		Semiconductor quantum light sources: fundamentals, technologies and devices by Peter Michler and Simone Luca Portalupi, Berlin: De Gruyter, 2024. xvi, 358 p. Includes bibliography and index (p. 341-358) ISBN: 9783110703405 Subject Terms: Quantum theory; Photonic statistics; Quantum optics; Cavity quantum; Semiconductor quantum 621.382:535.14 MIC-S Barcode: 181476; CL Click here for more details.

73		Speaker authentication by Qi (Peter) Li, New Jersey: Springer, 2012. xxv, 237 p., Signals and communication technology. Includes index (p. 231-237) ISBN: 9783642237300 Subject Terms: Automatic speech recognition; Signal, image and speech processing; Pattern recognition; Biomedical engineering; Mechanical 621.391 LI-S Barcode: 181477; CL Click here for more details.
74		Wind energy explained: on land and offshore by James F. Manwell... (et al.), 3rd ed., Hoboken: Wiley, 2024. xxx, 812 p. Includes index (p. 795-812) ISBN: 9781119367451 Subject Terms: Wind power; Wind turbines; Sustainable energy; Wind energy system economics; Renewable energy 621.548 -WIN Barcode: 181431; CL Click here for more details.
75		Wireless power transfer: principles and applications by Zhen Zhang and Hongliang Pang, New Jersey: IEEE Press, 2023. xix, 365 p., IEEE Press series on power and energy systems. Includes reference and index (p. 359-365) ISBN: 9781119654063 Subject Terms: Battery chargers; Electromagnetic induction; Power circuits; Wireless power transmission; Electric vehicle power supply 621.3.05 ZHA-W Barcode: 181444; CL Click here for more details.

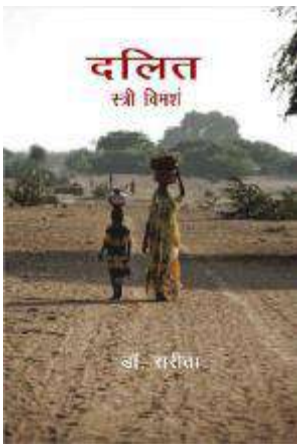
Energy Science and Engineering

76		Introduction to fuel cells: electrochemistry and materials by San Ping Jiang and Qingfeng Li, Singapore: Springer, 2022. xxx, 721 p.
		ISBN: 9789811076251
		Subject Terms: Fuel cell thermodynamics; Solid oxide fuel cells; Membrane fuel cells; Molten carbonate; Protonic ceramic oxide fuel cells
		621.352.6 JIA-I Barcode: 181388; CES Click here for more details.

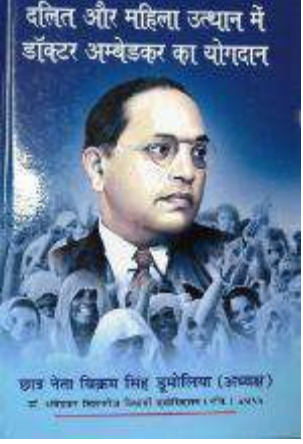
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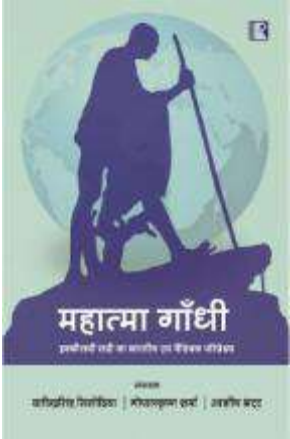
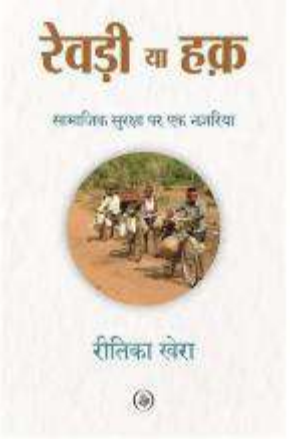
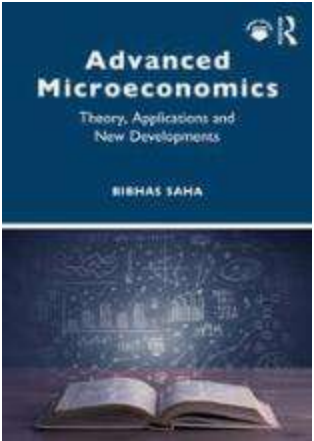
77		Introduction to civil engineering by Manabendra Saharia and Nagendra R. Velaga, New Delhi: All India Council for Technical Education, 2023. xxi, 176 p.
		ISBN: 9788196038649
		Subject Terms: Structural engineering; Geotechnical engineering; Construction; Town planning; Safety management
		624 SAH-I Barcode: G24083-G24085; CL; TB Click here for more details.

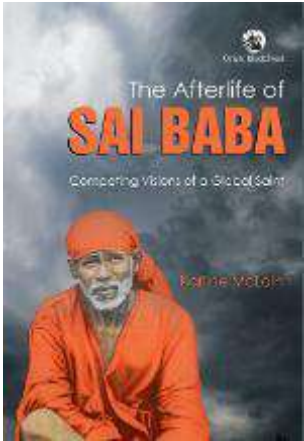
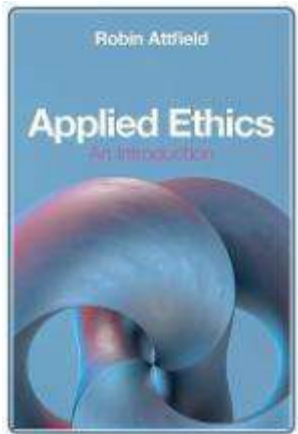
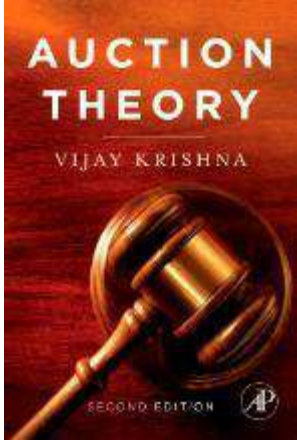
Hindi Cell

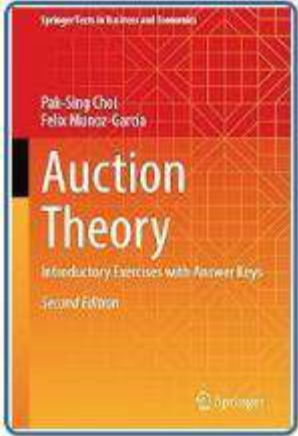
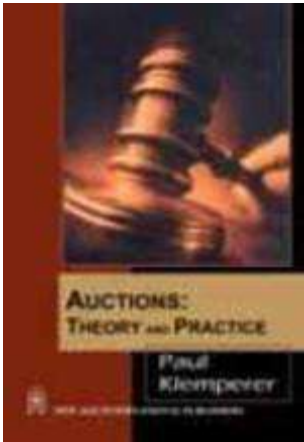
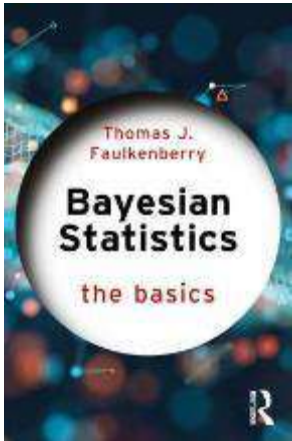
78		Dalit (दलित): stree vimarsh (स्त्री विमर्श) by Sarita, New Delhi: Academic Publication, 2024. 253p. Includes index (p. 250-253)
		ISBN: 9789383931934
		Subject Terms: Dalit; Women empowerment; Backward class; Dalit education; Dalit movement
		H 316.342.3 SAR-D Barcode: H378; CL Click here for more details.

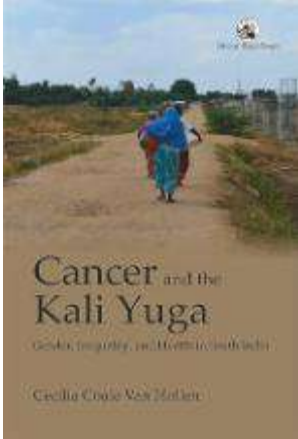
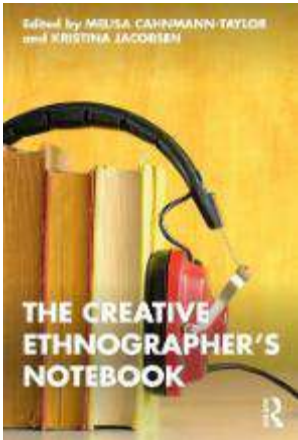
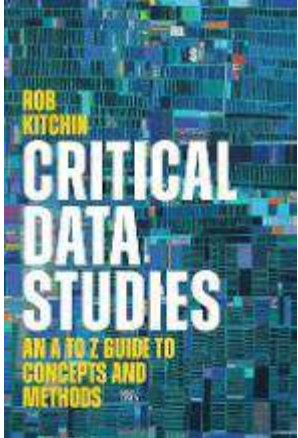
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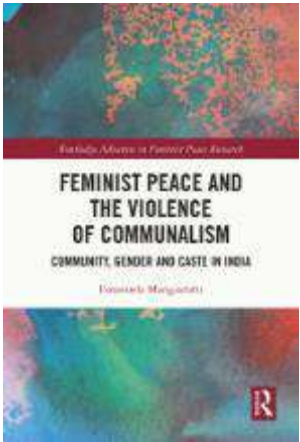
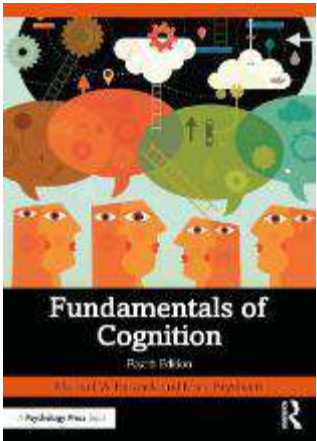
79		Dr. Ambedkar's contribution in upliftment of Dalit and women (दलित और महिला उत्थान में डॉक्टर अम्बेडकर का योगदान) by Vikram Singh Dumoliya, New Delhi: Swastik publications, 2025. 236 p. Includes bibliography (p. 235 - 236) ISBN: 9789391382964 Subject Terms: Racism; Social inequality; Constitution; Importance of education; Buddhism H 316.342.3+305 DUM-D Barcode: H377; CL Click here for more details.
80		Jaati ki samajh (जाति की समझ): Mahatma Budh se Babasaheb Ambedkar aur unke baad (महात्मा बुद्ध से बाबासाहेब अम्बेडकर और उनके बाद) by Gail Omvedt and translated by Nalini Bansal, Hyderabad: Orient Blackswan, 2023. xiii, 129 p. Includes index (p.121-129) ISBN: 9789352872640 Subject Terms: Caste; Thoughts of Ambedkar; Dalit politics; Dalit and society; Feminism H 316.342.3 OMV-J Barcode: H379; CL Click here for more details.
81		Kamjor varg ka samajshastra (कमजोर वर्ग का समाजशास्त्र): dalit janjati samaj evam mahilaye (दलित, जनजाति समाज एवं महिलाएं) edited by Vivek Kumar, Jaipur: Rawat Publications, 2024. 198 p., Bhartiya samajshastra adhyayan (भारतीय समाजशास्त्र अध्ययन). ISBN: 9788131613597 Subject Terms: Caste abolition; History of Dalit; Human rights; Women empowerment; B. R. Ambedkar H 316.342.3+305 -KAM Barcode: H375; CL Click here for more details.

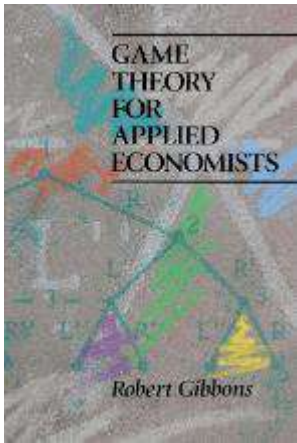
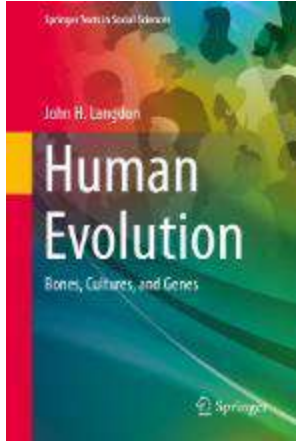
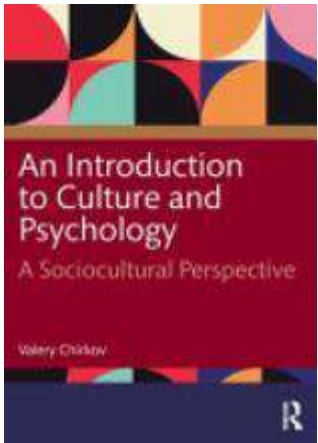
82		Mahatma Gandhi (महात्मा गाँधी): ikkisavin sati ka bharatiya evan vaishvik paripreksha (इक्कीसवीं सदी का भारतीय एवं वैश्विक परिप्रेक्ष्य) edited by Yatinder Singh Sisodia, Gopalkrishn Sharma and Ashish Bhatt, Jaipur: Rawat Publications, 2022. xiv, 237 p. ISBN: 9788131612330 Subject Terms: Gandhi's philosophy; Contemporary social context; Environmentalism; Gandhi's contemporaneity; Community development H 316.422(540)"20" -MAH Barcode: H376; CL Click here for more details.
83		Revri ya haq (रेवड़ी या हक): samajik suraksha par ek nazaria (सामाजिक सुरक्षा पर एक नज़रिया) by Reetika Khera, New Delhi: Rajkamal Prakashan, 2025. 286 p. ISBN: 9789360862817 Subject Terms: Social security; Social welfare; Indian economy; Public policy; Non-fiction H 364.658 KHE-R Barcode: H380; CL Click here for more details.
Humanities and Social Sciences		
84		Advanced microeconomics: theory, applications and new developments by Bibhas Saha, Oxon: Routledge, 2025. xxiii, 541 p. Includes index (p. 539-541) ISBN: 9781032129501 Subject Terms: Monopoly; Game theory economics; Oligopoly; Firm theory; Budget set 330.101.542 SAH-A Barcode: 181364; CL Click here for more details.

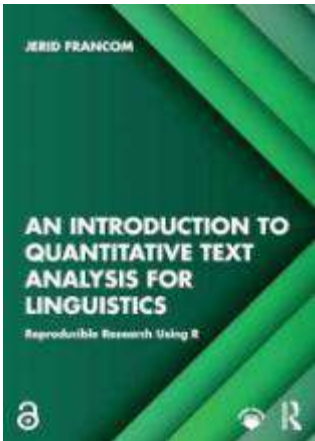
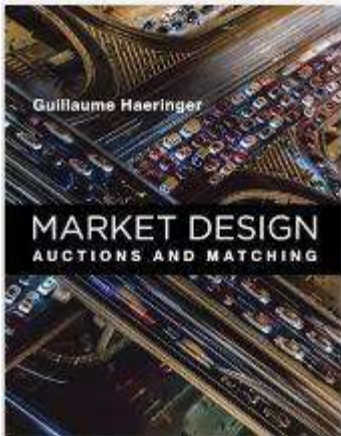
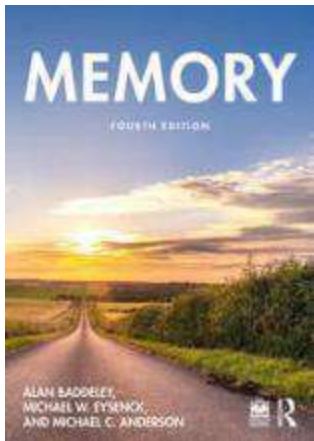
85		Afterlife of Sai Baba: competing visions of a global saint by Karline Mclain, New Delhi: Orient Blackswan, 2016. xi, 262 p. Includes bibliography and index (p.239-262) ISBN: 9788125063131 Subject Terms: Shirdi is for everyone; Shirdi is pandharpur; Shirdi is for religion; Shirdi is for humanity; Shirdi is for unity 2-36 MCL-A Barcode: 181373-181374; CL; HSS Click here for more details.
86		Applied ethics: an introduction by Robin Attfield, Cambridge: Polity Press, 2023. vi, 218 p. Includes references and index (p. 200-218) ISBN: 9781509547388 Subject Terms: Ethical theories; Biomedical ethics; Environmental ethics; Climate ethics; Capital punishment 17.021 ATT-A Barcode: 181442; CL Click here for more details.
87		Auction theory by Vijay krishna, 2nd ed., Burlington: Academic Press, 2010. xi, 323 p. Includes bibliography and Index (p. 305-323) ISBN: 9780123745071 Subject Terms: Valuation; Equilibrium bid; Revenue equivalence principle; Price discovery; Multi-unit auction 339.146.2 KRI-A Barcode: 181415; CL Click here for more details.

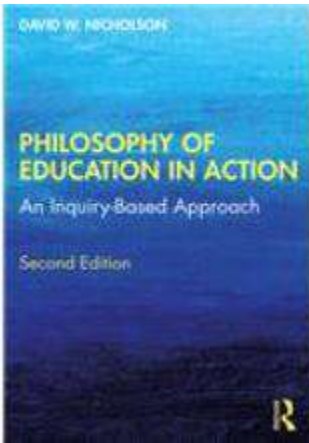
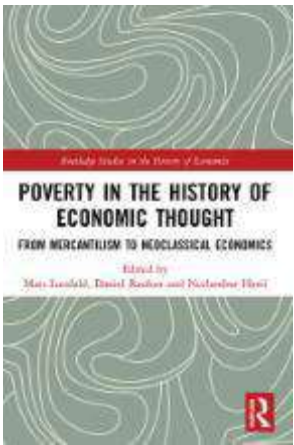
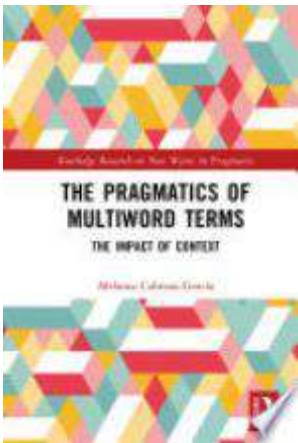
88		Auction theory: introductory exercises with answer keys by Pak-Sing Choi and Felix Munoz-Gracia, 2nd ed., Cham: Springer, 2025. xv, 370 p., Springer texts in business and economics. Includes reference and index (p. 365-370) ISBN: 9783031932700 Subject Terms: Auction theory; Equilibrium behavior; Revenue equivalence principle; Strategic incentives; Game theory 339.146.2 CHO-A Barcode: 181419; CL Click here for more details.
89		Auctions: theory and practice by Paul Klemperer, New Delhi: New Age International, 2010. xiii, 246 p. Includes references and index (p. 223-246) ISBN: 9788122431254 Subject Terms: Auction markets; Market design; Price auctions; Industrial organization; Game theory 339.146.2 KLE-A Barcode: 181371; CL Click here for more details.
90		Bayesian statistics: the basics by Thomas J. Faulkenberry, New York: Routledge, 2025. x, 160 p., The basics. Includes index (p. 159-160) ISBN: 9781032744001 Subject Terms: Language of Bayesian statistics; Bayesian correlation; Variance analysis; Linear regression; 519.226 FAU-B Barcode: 181377-181378; CL; HSS Click here for more details.

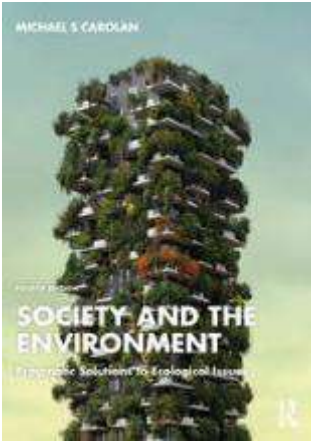
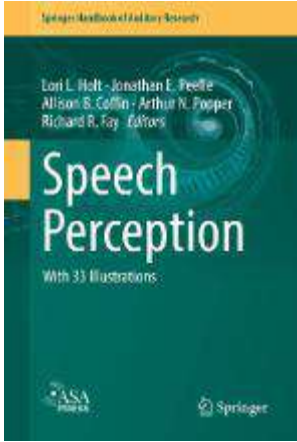
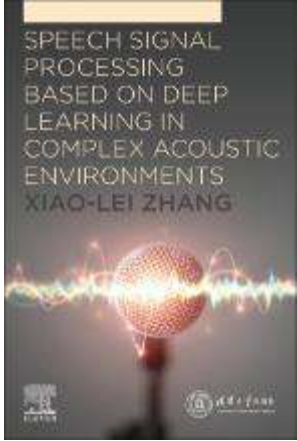
91		Cancer and the kali yuga: gender, inequality, and health in south India by Cecilia Coale Van Hollen, Hyderabad: Orient Blackswan, 2023. xix, 282 p. Includes bibliography and index (p. 251-282) ISBN: 9789354423369 Subject Terms: History and hospitals; Morality; Poverty; Biomedicine; Sorcery 305+616(548) HOL-C Barcode: 181375-181376; CL; HSS Click here for more details.
92		Creative ethnographer's notebook edited by Melisa Cahnmann-Taylor and Kristina Jacobsen, New York: Routledge, 2025. xxviii, 262 p. Includes index (p. 257-262) ISBN: 9781032429915 Subject Terms: Ethnology - Methodology; Qualitative research; Social science; Anthropology; Cultivating appetite 39-051 -CRE Barcode: 181365; CL Click here for more details.
93		Critical data studies: an A to Z guide to concepts and methods by Rob Kitchin, Cambridge: Polity Press, 2025. 258 p. Includes index (p. 245-258) ISBN: 9781509566532 Subject Terms: Critical data studies; Data governance; Data ethics; Big data philosophy; Social implications of data 681.3 KIT-C Barcode: 181363; CL Click here for more details.

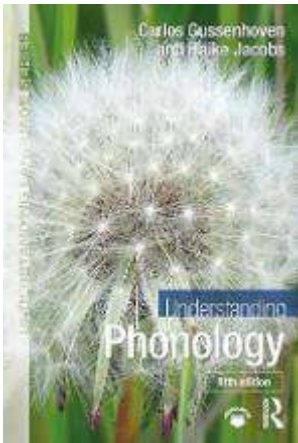
94		Earthscan reader in environmental economics edited by Anil Markandya and Julie Richardson, London: Earthscan Publications, 2020. 469 p. Includes references (p. 467-469) ISBN: 9780367476366 Subject Terms: Conservation; Fisheries management; Economic growth; Environmental control; Sustainable agriculture 502/504:330 -EAR Barcode: 181448; CL Click here for more details.
95		Feminist peace and the violence of communalism: community gender and caste in India by Emanuela Mangiarotti, Oxon: Routledge, 2025. x, 157 p., Routledge advances in feminist peace research. includes index (p. 151-157) ISBN: 9781032566054 Subject Terms: Religious difference; Communal violence; Women's everyday life; Communally sensitive city; Interfaith relations 316.334.52:316.48 MAN-F Barcode: 181366; CL Click here for more details.
96		Fundamentals of cognition by Michael W. Eysenck and Marc Brysbaert, 4th ed., Oxon: Routledge, 2024. vii, 624 p. Includes index (p. 505-624) ISBN: 9781032471310 Subject Terms: Human information processing; Psychology; Thought and thinking; Visual perception; Knowledge in semantic memory 159.937 EYS-F Barcode: 181408; CL Click here for more details.
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98		Human evolution: bones, cultures, and genes by John H. Langdon, Cham: Springer, 2022. xxxvii, 722 p., Springer texts in social sciences. Includes index (p. 709 - 722) ISBN: 9783031141560 Subject Terms: Life history; Middle paleolithic; Middle Pleistocene; Brain; Hominins 575.8 LAN-H Barcode: 181409; CL Click here for more details.
99		Introduction to culture and psychology: a sociocultural perspective by Valery Chirkov, Oxon: Routledge, 2025. xvi, 407 p. Includes index (p. 403-407) ISBN: 9781032362526 Subject Terms: Ethnopsychology; Psychology - Social aspects; Socialization and enculturation; Culture, language and the mind; Migration and acculturation 316.6 CHI-I Barcode: 181356-181357; TB Click here for more details.

100		Introduction to quantitative text analysis for linguistics: reproducible research using R by Jerid Francom, Abingdon: Routledge, 2025. xxiv, 344 p. Includes reference and index (325-344) ISBN: 9781032494265 Subject Terms: Computational linguistics - Statistical methods; Text data mining; Language analysis; Data analysis; Research 001.8 FRA-I Barcode: 181367-181368; CL; HSS Click here for more details.
101		Market design: auctions and matching by Guillaume Haeringer, Cambridge: MIT Press, 2018. xvii, 373 p. Includes references and index (p. 365-373) ISBN: 9780262037549 Subject Terms: Microeconomics; Bidding; Ebay; Financial markets; Trading 339.13 HAE-M Barcode: 181473; HSS Click here for more details.
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104		Poverty in the history of economic thought: from mercantilism to neoclassical economics edited by Mats Lundahl, Daniel Rauhut and Neelambar Hatti, Abingdon: Routledge, 2021. xii, 184 p., Routledge studies in the history of economics. Includes index (p. 179-184) ISBN: 9780367675721 Subject Terms: Economic thought; Income distribution; Economic development; Poverty measurement; Policy 330.812/.831 -POV Barcode: 181420-181421; CL; HSS Click here for more details.
105		Pragmatics of multiword terms: the impact of context by Melania Cabezas-Garcia, New York: Routledge, 2024. xiii, 171 p., Routledge research on new waves in pragmatics. Includes reference and index (p. 153-171) ISBN: 9781032486529 Subject Terms: Multiword terms; Corpus linguistics; Translation and equivalence; Frame-based terminology; Inference 81'373 CAB-P Barcode: 181422; CL Click here for more details.

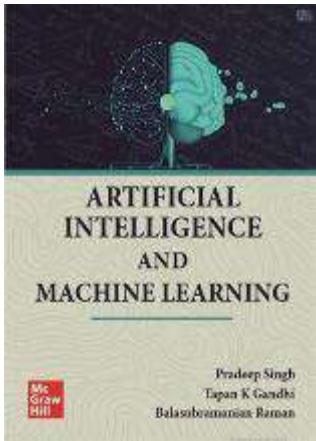
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107		Speech perception by Lori L. Holt... (et al.), Cham: Springer, 2022. xvi, 252 p., Springer handbook of auditory research. ISBN: 9783030815417 Subject Terms: Neurosciences; Speech perception; Extracting language; Hearing loss; Cortical representation 612.858.7 -SPE Barcode: 181481; CL Click here for more details.
108		Speech signal processing based on deep learning in complex acoustic environments by Xiao-Lei Zhang, Amsterdam: Elsevier, 2025. viii, 271 p. Includes references and index (p. 247-271) ISBN: 9780443248566 Subject Terms: Backpropagation algorithm; Signal models; Algorithm framework; Noise estimation; Speaker recognition 534:004.85 ZHA-S Barcode: 181403; CL Click here for more details.

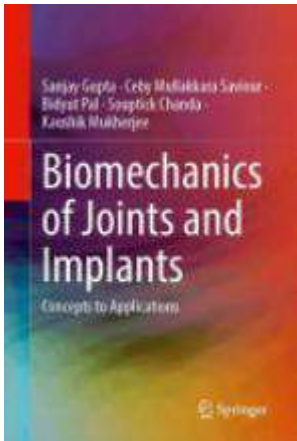
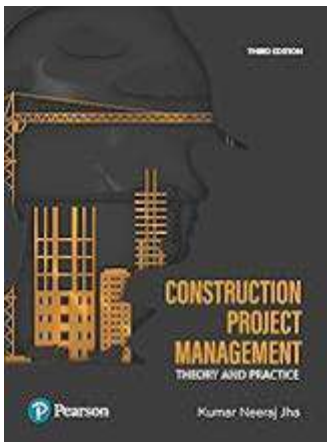
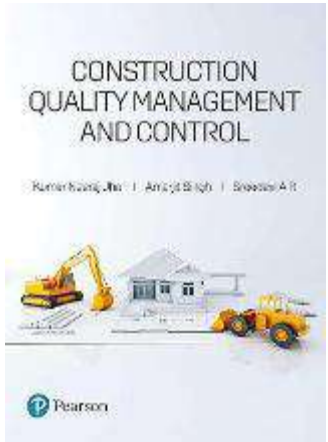
109		Understanding phonology by Carlos Gussenhoven and Haïke Jacobs, 5th ed., Oxon: Routledge, 2025. ix, 244 p., Understanding language series. Includes references and index (p. 220-244) ISBN: 9781032498416 Subject Terms: Comparative and general grammar; Linguistics; Language arts and disciplines; Morphology; Linguistics - Understanding 81'344 GUS-U Barcode: 181369-181370; CL; HSS Click here for more details.
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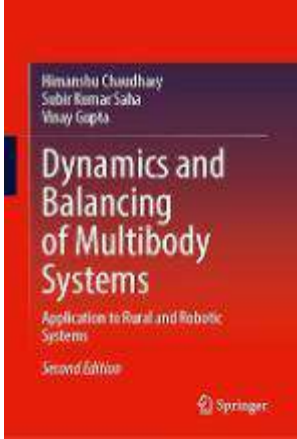
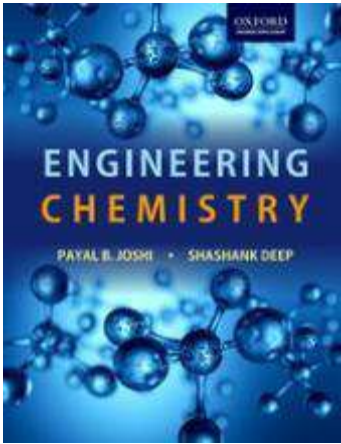
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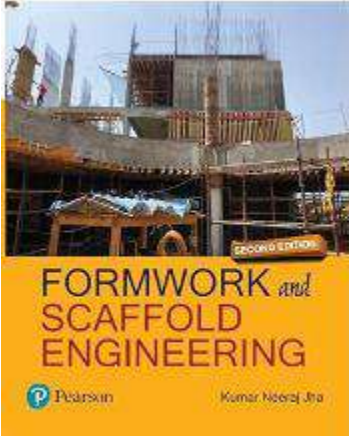
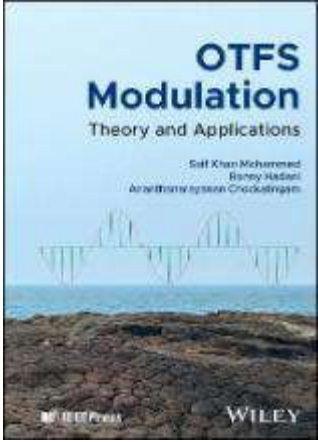
110		Washington manual of medical therapeutics edited by Siri Ancha... (et al.), 37th ed., Philadelphia: Wolters Kluwer, 2023. xvi, 1128 p. Includes index (p. 1089-1128) ISBN: 9781975190620 Subject Terms: Internal medicine - Handbooks, manuals, etc.; Diseases - Treatment - Handbooks, manuals, etc.; Toxicology - Handbooks, manuals, etc.; Therapies - Medicine - Handbooks, manuals, etc.; Medical care - Handbooks, manuals, etc. 615(021) -WAS Barcode: 181413; IITH Click here for more details.
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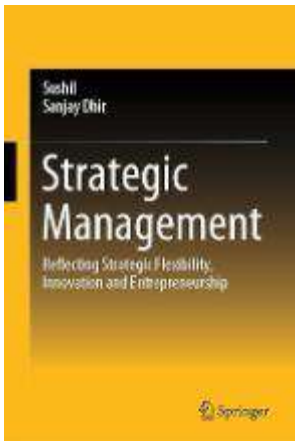
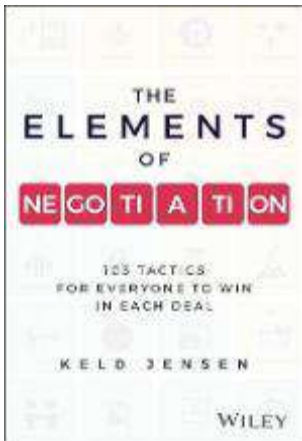
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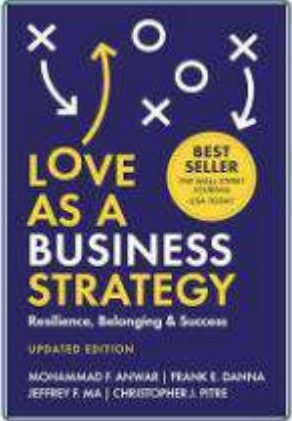
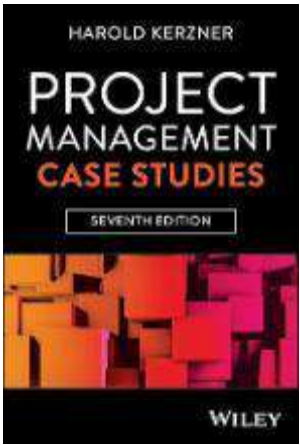
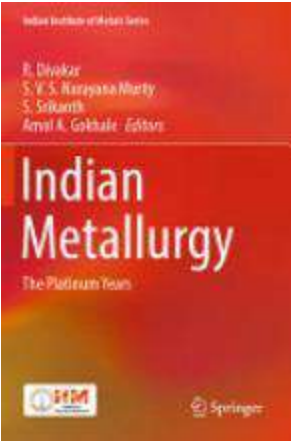
111		Artificial intelligence and machine learning by Pradeep Singh, Chennai: McGraw Hill, 2025. xxx, 554 p. Includes index (p. 543-554) ISBN: 9789364440820 Subject Terms: AI development; Machine learning; Linear discriminant analysis; Neural network and deep learning; Natural language processing 681.3 SIN-A Barcode: 181342; CL Click here for more details.

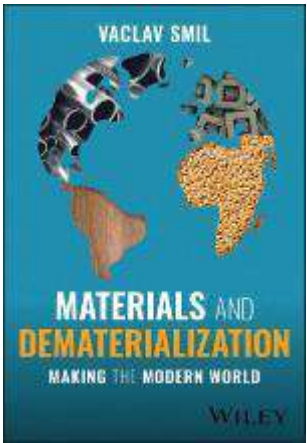
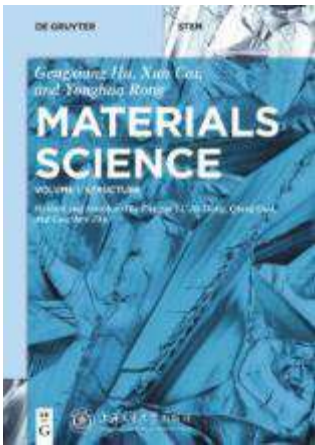
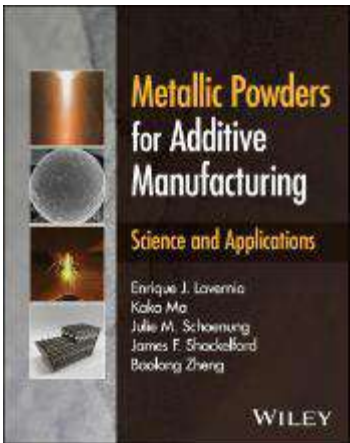
112		Biomechanics of joints and implants: concepts to applications by Sanjay Gupta... (et al.), Singapore: Springer, 2025. xvi, 437p. ISBN: 9789819605859 Subject Terms: Musculoskeletal system; Human joint and spine; Biomechanics of gait; Kinematics and kinetics; Bone tissue mechanics 615.477.2:616.72 -BIO Barcode: 181347; CL Click here for more details.
113		Construction project management: theory and practice by Kumar Neeraj Jha, 3rd ed., Noida: Pearson, 2025. xxvi, 895 p. Includes index (p. 877-890) ISBN: 9789361593826 Subject Terms: Project organization; Construction economics; Construction contract; Construction planning; Construction safety management 69:005.8 JHA-C Barcode: 181372; CL Click here for more details.
114		Construction quality management and control by Kumar Neeraj Jha, Amarjit Singh and Sreedevi A. R., Noida: Pearson, 2025. xvi, 318 p. Includes index (p. 313-318) ISBN: 9789367137550 Subject Terms: Total quality management; ISO standards; Cost of quality; Bathtub club; Concrete strength 624:005.6 JHA-C Barcode: G24086; CL Click here for more details.

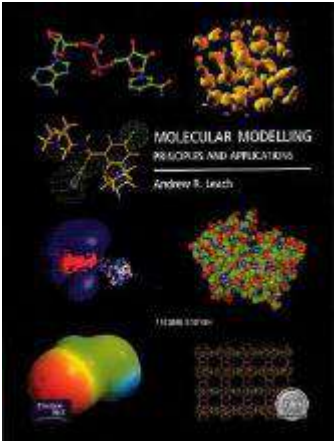
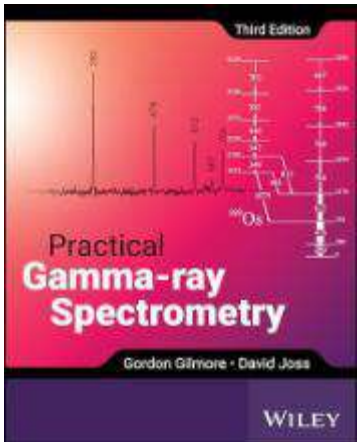
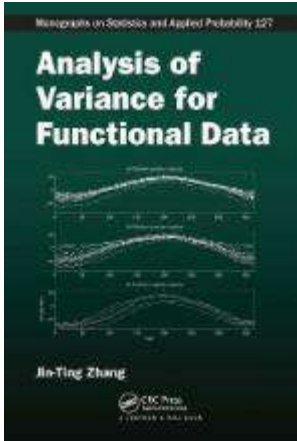
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116		Engineering chemistry by Payal B. Joshi and Shashank Deep, New Delhi: Oxford University Press, 2019. xvi, 742 p. Includes index (p. 735-742) ISBN: 9780199496662 Subject Terms: Atomic and molecular structure; Thermodynamics and chemical equilibrium; Electrochemistry; Surface chemistry; Corrosion 54:62 JOS-E Barcode: 181407; CL Click here for more details.
117		Financial management practices: an empirical study of Indian corporates by P. K. Jain, Shveta Singh and Surendra Singh Yadav, New Delhi: Springer, 2013. xlv, 389 p., India studies in business and economics. Includes index (p. 385-389) ISBN: 9788132209898 Subject Terms: Business; Corporate - India; Economics; Macroeconomics; Risk management 658.15(540) JAI-F Barcode: 181487; CL Click here for more details.

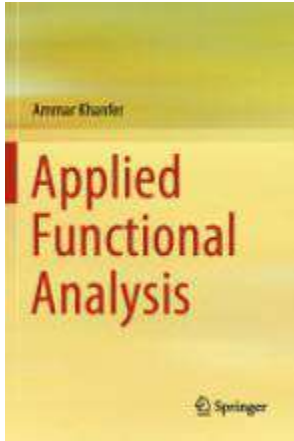
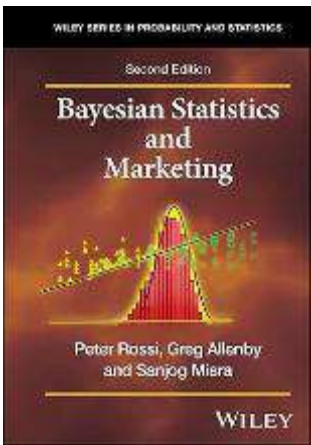
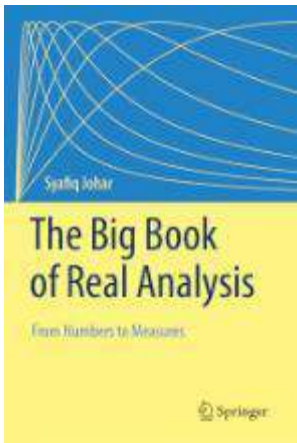
118		Formwork and scaffold engineering by Kumar Neeraj Jha, 2nd ed., Noida: Pearson, 2024. xxii, 592 p. Includes references, bibliography and index (p. 579 - 592) ISBN: 9789356066274 Subject Terms: Formwork material; Wall formwork; Building construction; Design concepts; Bridge structures 624.012.4 JHA-F Barcode: 181353; CL Click here for more details.
119		Introduction to civil engineering by Manabendra Saharia and Nagendra R. Velaga, New Delhi: All India Council for Technical Education, 2023. xxi, 176 p. ISBN: 9788196038649 Subject Terms: Structural engineering; Geotechnical engineering; Construction; Town planning; Safety management 624 SAH-I Barcode: G24083; CL Click here for more details.
120		OTFS modulation: theory and applications by Saif Khan Mohammed, Ronny Hadani and Ananthanarayanan Chockalingam, Hoboken: Wiley, 2024. xxiv, 424 p. Includes references and index (p. 403-424) ISBN: 9781119984184 Subject Terms: Communication waveforms; Channel interaction; Fourier transform; Delay-doppler diversity; Linear detection 621.39 MOH-O Barcode: 181402; CL Click here for more details.

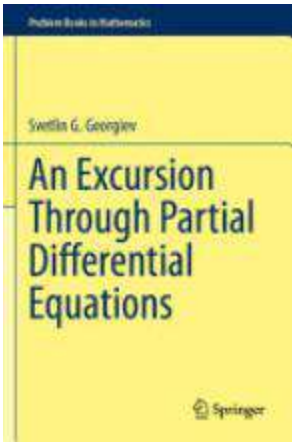
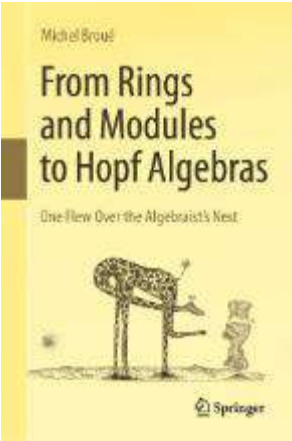
121		Stacked antennas: design, analysis and applications by Ankita A. Malhotra and Ananjan Basu, Boca Raton: CRC Press, 2025. xiv, 208 p. Includes index (p. 201-207) ISBN: 9781032667225 Subject Terms: Microstrip antennas; Static analysis; Microwave imaging; Digital and wireless communications; Telecommunications 621.396 MAL-S Barcode: G24082; CL Click here for more details.
122		Strategic management: reflecting strategic flexibility, innovation and entrepreneurship by Sushil and Sanjay Dhir, Singapore: Springer, 2024. xxi, 537 p. Includes index (p. 521-537) ISBN: 9789819747870 Subject Terms: Entrepreneurship; Management; New business enterprise; Organizational change; Strategic planning 658:005.21 SUS-S Barcode: 181428; CL Click here for more details.
Management Studies		
123		Elements of negotiation: 103 tactics for everyone to win in each deal by Keld Jensen, Hoboken: Wiley, 2024. xxiii, 306 p. Includes index (p. 297- 306) ISBN: 9781394248285 Subject Terms: Ultimate level; Tactics; Nonverbal; Interpersonal relations; Negotiation in business 658.7 JEN-E Barcode: 181333; 181424; CL Click here for more details.
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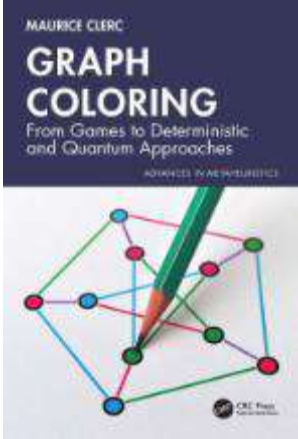
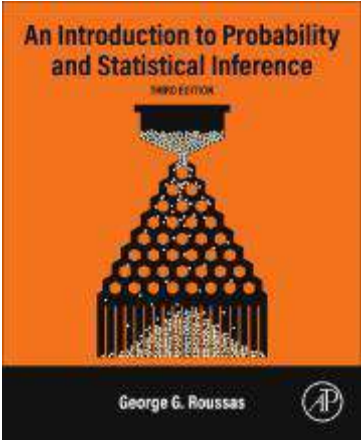
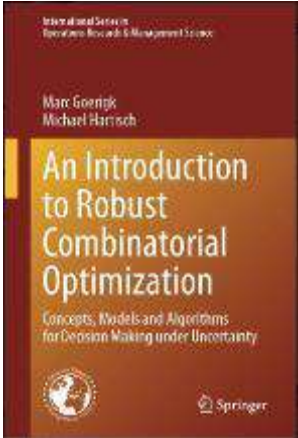
124		Love as a business strategy: resilience, belonging and success by Mohammad F. Anwar... (et al.), Hoboken: Wiley, 2025. xxiii, 228 p. Includes index (p. 217-228) ISBN: 9781394332533 Subject Terms: Vulnerability; Psychological safety; Empowerment; Behavior over strategy; Forgiveness 658:005.21 -LOV Barcode: 181425; CL Click here for more details.
125		Project management case studies by Harold Kerzner, 7th ed., Hoboken: Wiley, 2025. xvii, 878 p. Includes index (P. 861-878) ISBN: 9781394294411 Subject Terms: Business and economics; Project management; Managing innovation projects; Project risk management; Conflict management 658.5:005.8 KER-P Barcode: 181332; 181423; CL; DMS Click here for more details.
Materials Science and Engineering		
126		Indian metallurgy: the platinum years edited by R. Divakar... (et al.), Singapore: Springer, 2024. xxvi, 473 p., Indian institute of metals series. ISBN: 9789819950621 Subject Terms: Investment; Platinum in India; Industrial demand; Durability; Platinum in India 669(540) -IND Barcode: 181459; CL Click here for more details.

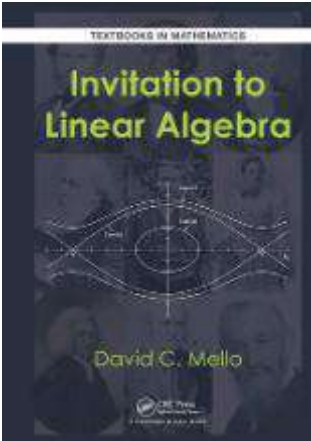
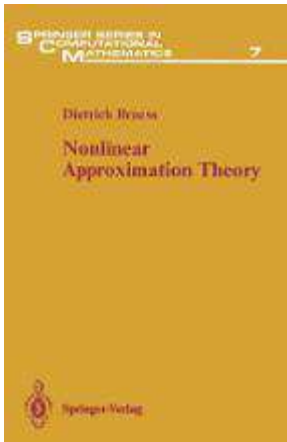
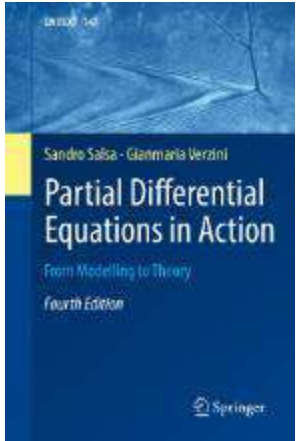
127		Materials and dematerialization: making the modern world by Vaclav Smil, 2nd ed., Hoboken: Wiley, 2023. xii, 302 p. Include References and index (p.241-302) ISBN: 9781394181209 Subject Terms: Biomaterials; Natural resources; Circular economy; Construction materials; Fertilizers 620:330.12 SMI-M Barcode: 181350; CL Click here for more details.
128		Materials science by Gengxiang Hu, Xun Cai and Yonghua Rong, Berlin: De Gruyter, 2021. vol. 1: xiv, 335 p. ; vol. 2: xii, 336 p., De Gruyter: stem. vol. 1: Includes reference and index ; vol. 2: Includes reference and index (p. 333-336) ISBN: 9783110495126 9783110495157 Subject Terms: Atomic structure; Structure of Solids; Crystal defects; Deformation; Diffusion in solids 620.1 HU-M Barcode: 181437-181438; CL Click here for more details.
129		Metallic powders for additive manufacturing: science and applications by Enrique J. Lavernia... (et al.), Hoboken: Wiley, 2024. xxiv, 575 p. Includes index (p. 565-575) ISBN: 9781119908111 Subject Terms: Metallic powders; Mechanical properties; Microstructure; Powder metallurgy; 3D printing 621.7:621.921.1 -MET Barcode: 181397; DMSE Click here for more details.

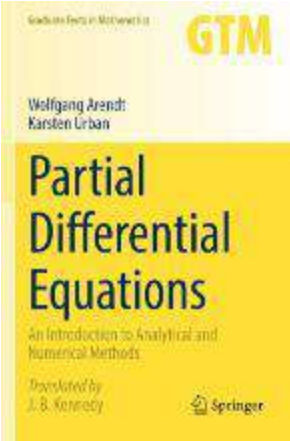
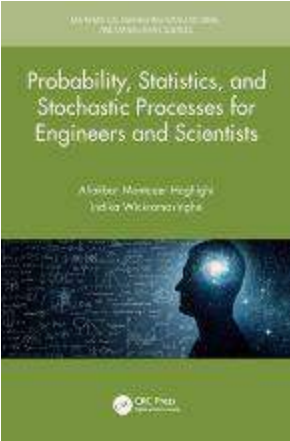
130		Molecular modelling: principles and applications by Andrew R. Leach, 2nd ed., Essex: Pearson, 2001. xxiv, 744 p. Includes index (p. 727-744) ISBN: 9780582382107 Subject Terms: Molecular graphics; Computational quantum mechanics; Computer simulation; Conformational analysis; Molecular mechanics 544.1 LEA-M Barcode: 181414; CL Click here for more details.
131		Practical gamma-ray spectrometry by Gordon Gilmore and David Joss, 3rd ed., Hoboken: Wiley, 2025. xxvii, 511 p. Includes index (p. 497-511) ISBN: 9781119896081 Subject Terms: Nuclear data; Saturation velocity; Secular equilibrium; Liquid nitrogen; Scattering 543.42 GIL-P Barcode: 181398; DMSE Click here for more details.
Mathematics		
132		Analysis of variance for functional data by Jin-Ting Zhang, Boca Raton: CRC Press, 2024. xxiii, 386 p., Monographs on statistics and applied probability. Includes bibliography and index (p. 369-386) ISBN: 9781032920399 Subject Terms: Nitrogen oxide; Functional linear model; Eigen value; Pivotal test function; Bootstrap test 519.24 ZHA-A Barcode: 181410; MA Click here for more details.

133		Applied functional analysis by Ammar Khanfer, Singapore: Springer, 2024. xvii, 367 p. Includes reference and index (p. 361-365) ISBN: 9789819937905 Subject Terms: Sobolev spaces; Hilbert spaces; linear operators; distributions; calculus of variations 517.5 KHA-A Barcode: 181330; CL Click here for more details.
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135		Big book of real analysis: from numbers to measures by Syafiq Johar, Cham: Springer, 2023. xxvii, 938 p. Includes reference and index (p. 929 - 938) ISBN: 9783031308314 Subject Terms: Logic and sets; Integers; Real numbers; Differentiation; Double integrals 517.13 JOH-B Barcode: 181384; CL Click here for more details.

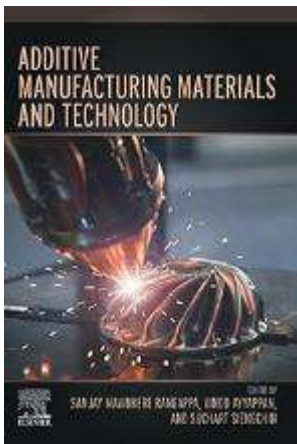
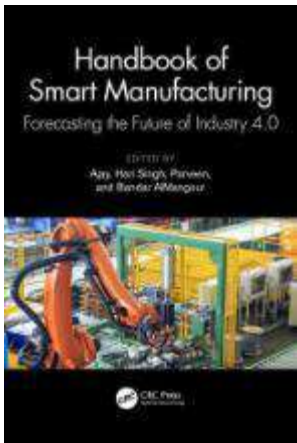
136		Class field theory: from theory to practice by Georges Gras, Berlin: Springer, 2003. xiii, 491p., Springer monographs in mathematics. Includes bibliography and index (p. 467-491) ISBN: 9783540441335 Subject Terms: Abelian closure; Algebra; Invariant class groups; Number fields; Number theory 511.236 GRA-C Barcode: 181337; CL Click here for more details.
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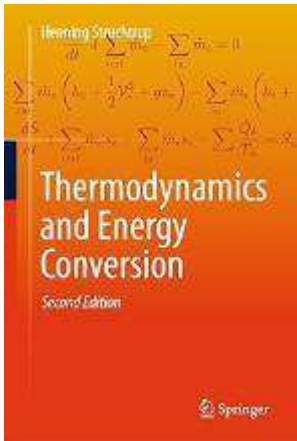
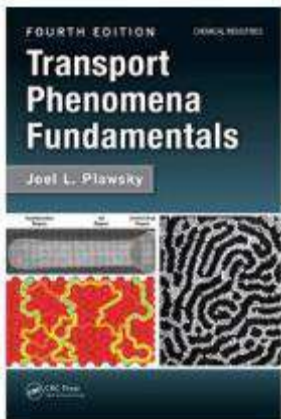
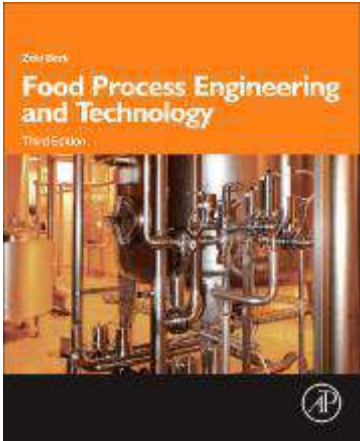
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141		Introduction to robust combinatorial optimization: concepts, models and algorithms for decision making under uncertainty by Marc Goerigk and Michael Hartisch, Cham: Springer, 2024. xii, 308 p., International series in operations research and management science. ISBN: 9783031612602 Subject Terms: Discrete optimization; Management science; Mathematical optimization; Operations research; Approximation algorithms 519.165 GOE-I Barcode: 181434; CL Click here for more details.

142		Invitation to linear algebra by David C. Mello, Boca Raton: CRC Press, 2017. xiii, 394 p., Textbooks in mathematics. Includes references and index (p. 383-394) ISBN: 9780367240875 Subject Terms: Mathematics; Linear algebra; Linear transformations; Determinants; Matrices and linear systems 512.64 MEL-I Barcode: 181338; CL Click here for more details.
143		Nonlinear approximation theory by Dietrich Braess, Berlin: Springer, 2020. xiv, 290 p., Springer series in computational mathematics. Includes bibliography and index (p. 277-290) ISBN: 9783662602249 Subject Terms: Functional analytic approach; Rational approximation; Spline functions; Linear and convex sets; Exponential sums 517398 BRA-N Barcode: 181435; CL Click here for more details.
144		Partial differential equations in action: from modelling to theory by Sandro Salsa and Gianmaria Verzini, 4th ed., Cham: Springer, 2022. xviii, 677 p., Unitext: la matematica per il 3+2. Includes reference and index (p. 669-677) ISBN: 9783031218521 Subject Terms: Applied mathematics; Diffusion; Laplace equation; Macroscopic model; Waves and vibration 517.95 SAL-P Barcode: 181321; CL Click here for more details.

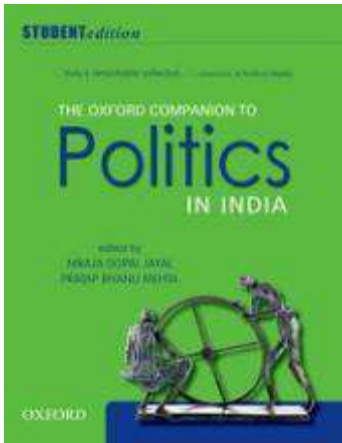
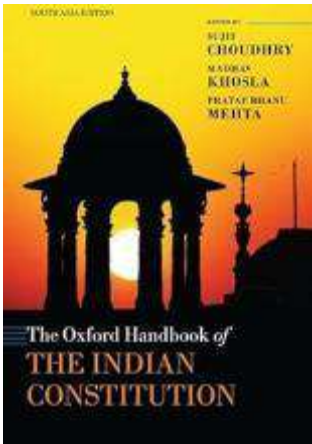
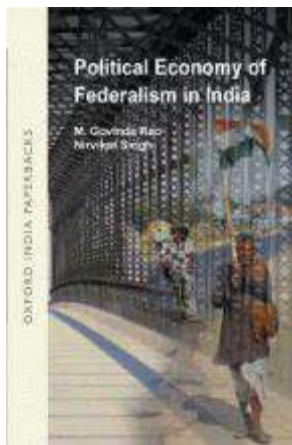
145		Partial differential equations: an introduction to analytical and numerical methods by Wolfgang Arendt, Karsten Urban and translated by James B. Kennedy, Cham: Springer, 2023. xxiv, 452 p., Graduate texts in mathematics. Includes references and index (p. 435- 452) ISBN: 9783031133817 Subject Terms: Numerical analysis; Spectral decomposition; Hilbert spaces; Elliptic equations; Numerical methods 517.95 ARE-P Barcode: 181393-181394; CL; MA Click here for more details.
146		Probability theory: an introduction using R by Shailaja R. Deshmukh and Akanksha S. Kashikar, Boca Raton: CRC Press, 2025. xx, 575 p. Includes bibliography and index (p. 571-575) ISBN: 9781032617978 Subject Terms: Mathematical and statistical software; Probability and statistics; Data processing; Computer program language; Distribution function 519.2 DES-P Barcode: 181336; CL Click here for more details.
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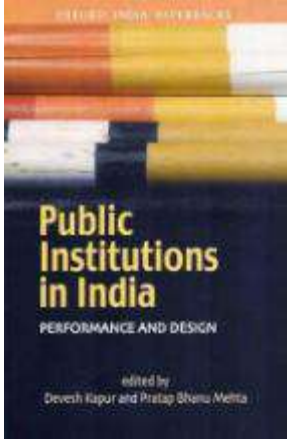
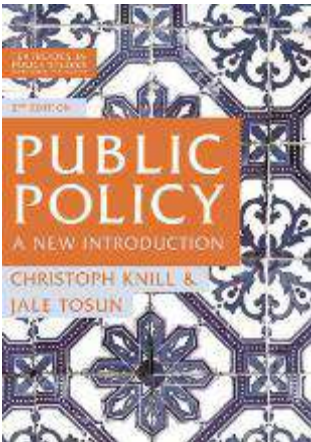
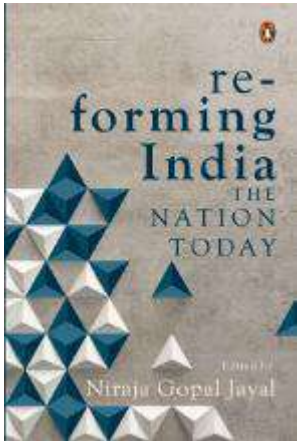
Mechanical Engineering

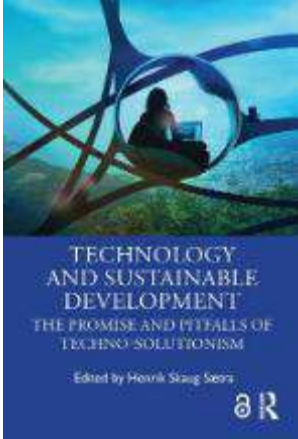
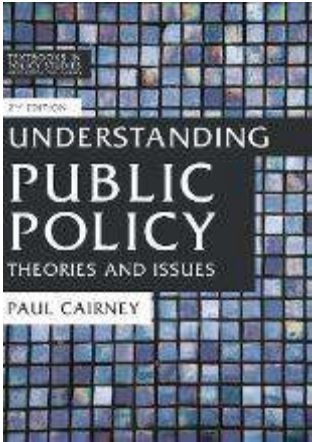
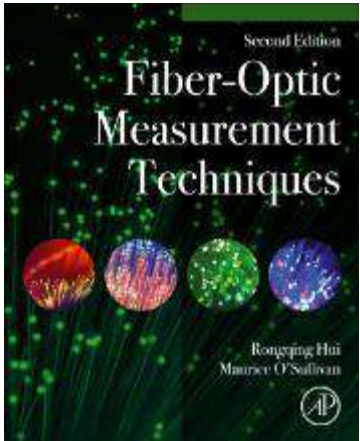
148		Additive manufacturing materials and technology edited by Sanjay Mavinkere Rangappa, Vinod Ayyappan and Suchart Siengchin, Amsterdam: Elsevier, 2024. xvi, 566 p. Includes index (p. 543-566) ISBN: 9780443184628 Subject Terms: Additive manufacturing; Fabrication additive; Three-dimensional printing; Ceramics and ceramic composites; Filament fabrication process 621.7:681.62 -ADD Barcode: 181464; CL Click here for more details.
149		Handbook of smart manufacturing: forecasting the future of industry 4.0 edited by Ajay... (et al.), Boca Raton: CRC Press, 2023. xix, 363 p. Includes index (p. 357 - 363) ISBN: 9781032367866 Subject Terms: Cybersecurity - Handbooks, manuals, etc.; Artificial intelligence - Handbooks, manuals, etc.; Smart biomaterials - Handbooks, manuals, etc.; Robotic additive manufacturing - Handbooks, manuals, etc.; Circular supply chain - Handbooks, manuals, etc. RL-HB 67.02:004(021) -HAN Barcode: 181355; REF Click here for more details.
150		Integration of AI-based manufacturing and industrial engineering systems with the internet of things edited by Pankaj Bhambri... (et al.), New York: CRC Press, 2024. xv, 280 p., Intelligent manufacturing and industrial engineering. Includes index (p. 279-280) ISBN: 9781032468310 Subject Terms: Internet of things; Data analytics; Image enhancement; Blockchain; Machine learning 67.02:004.85 -INT Barcode: 181483-181484; CL; ME Click here for more details.
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Rural Development and Technology		
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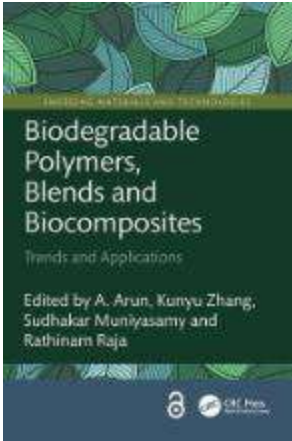
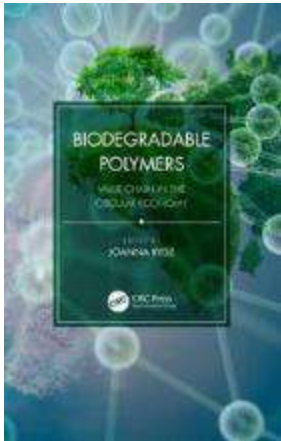
School of Public Policy

154		Oxford companion to politics in India edited by Niraja Gopal Jayal and Pratap Bhanu Mehta, New Delhi: Oxford University Press, 2010. xxxii, 618 p. Includes index (p. 605-618) ISBN: 9780198075929 Subject Terms: State; Constitutionalism; Parliament; Social movements; Identity and politics 32(540) -OXF Barcode: 181436; TB Click here for more details.
155		Oxford handbook of the Indian constitution edited by Sujit Choudhry, Madhav Khosla and Pratap Bhanu Mehta, Oxford University Press: Oxford University Press, 2025. lxxv, 1048 p. Includes Index (p. 1033-1048) ISBN: 9780198787334 Subject Terms: Constituting democracy - Handbooks, manuals, etc.; Separation of power - Handbooks, manuals, etc.; Legislative Competence - Handbooks, manuals, etc.; Constitutional rights - Handbooks, manuals, etc.; Equality - Handbooks, manuals, etc. 342.4(540) -OXF Barcode: 181416; TB Click here for more details.
156		Political economy of federalism in India by M. Govind Rao and Nirvikar Singh, New Delhi: Oxford University Press, 2006. ix, 422 p. Includes bibliography and index (p.386-422) ISBN: 9780195686937 Subject Terms: Comparative government; Economic history; Capitalism; Federal government; Decentralization in government 330.101.8(540) RAO-P Barcode: 181496; TB Click here for more details.

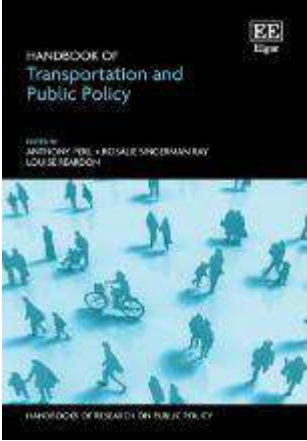
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158		Public policy: a new introduction by Christoph Knill and Jale Tosun, 2nd ed., London: Bloomsbury Publishing, 2020. xiv, 292 p., Textbooks in policy studies. Includes references and index (p. 241-292) ISBN: 9789361313837 Subject Terms: Public administration; Nation state; Politics and government; Political planning; Governance 334.02:351 KNI-P Barcode: 181475; TB Click here for more details.
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Sensors Instrumentation and Cyber-physical System Engineering		
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Textile and Fibre Engineering

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Transportation Research and Injury Prevention (TRIP) Centre

166		Handbook of transportation and public policy edited by Anthony Perl, Rosalie Singerman Ray and Louise Reardon, Cheltenham: Edward Elgar publishing, 2025. xiv, 506 p., Handbooks of research on public policy. Includes index (p. 493-506) ISBN: 9781800888777 Subject Terms: Transportation policy - Handbooks, manuals, etc.; Governance forms - Handbooks, manuals, etc.; Policy cycle - Handbooks, manuals, etc.; Discursive institutionalism - Handbooks, manuals, etc.; Political lenses - Handbooks, manuals, etc. RL-HB 338.47(021) -HAN Barcode: 181354; REF Click here for more details.
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Title	:	Development and impact assessment of improved biomass cookstoves in rural communities
Researcher	:	Aier, Imlisongla
Department	:	Centre for Rural Development and Technology, IITD
Year	:	2025
Supervisor	:	Vijay, Virendra Kumar (Prof.) - CRDT (Guide); Kaushal, Priyanka (Prof.) - CRDT (Guide)
Physical description	:	xxiv, 217 p.
Subject terms	:	Cookstove in India; Cookstove Design; Testing of cookstoves; Fuel wood consumed; Heat transfer in the cookstove
Barcode	:	TH8310
Call No.	:	TH 662.6 AIE-D

Title	:	From nucleation to Haze: aerosol evolution in polluted environments
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Researcher	: Ali, Umer
Department	: Department of Chemical Engineering, IITD
Year	: 2025
Supervisor	: Singh, Vikram (Assoc. Prof.) - CHE (Guide); Mayank Kumar (Assoc. Prof.) - ME (Guide)
Physical description	: xix 288 p.
Subject terms	: Fine particulate matter; Atmospheric aerosols; Black carbon; Aerosol liquid water content; New particle formation
Barcode	: TH8311
Call No.	: TH 544.772:641.71 ALI-F
Title	: Design, development and control of brushless direct current motor drives for ceiling fan
Researcher	: Amit Kumar
Department	: Department of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Singh, Bhim (Prof.) - EE (Guide)
Physical description	: xlviii, 339 p.
Subject terms	: Electromagnetic inference; Harmonic distortion; Electric commutation; PFC convertors; Diode bridge rectifier
Barcode	: TH8312
Call No.	: TH 621.313.333 AMI-D
Title	: Application of membrane active peptides for management of microbial keratitis
Researcher	: Arora, Aditi
Department	: Kusuma School of Biological Sciences, IITD
Year	: 2025
Supervisor	: Chugh, Archana (Prof.) - SBS (Guide)
Physical description	: xx, 177 p.
Subject terms	: Ocular diseases; Candida species; Antimicrobial peptides; Oxidative stress; Modulation of membrane
Barcode	: TH8313
Call No.	: TH 576.3 ARO-A
Title	: Fluid modeling and simulations of a finite size unmagnetized plasma and a flowing magnetized plasma
Researcher	: Bag, Subhasish
Department	: Department of Physics, IITD
Year	: 2025
Supervisor	: Saxena, Vikrant (Assoc. Prof.) - PH (Guide)

Physical description	: xviii, 183 p,
Subject terms	: Magnetic field; Sinusoidal perturbation; Flux; Thrust; Energy calculations
Barcode	: TH8314
Call No.	: TH 533.95 BAG-F
Title	: Morphological phase separation induced regeneration of patterns
Researcher	: Barnwal, Abhishek Kumar
Department	: Department of Chemical Engineering, IITD
Year	: 2025
Supervisor	: Khanna, Rajesh (Prof.) - CHE (Guide); Chokshi, Paresh (Prof.) - CHE (Guide)
Physical description	: xxii, 137 p.
Subject terms	: Solid substrates; Liquid films; Equilibrium; Dipoles; Nanomachines
Barcode	: TH8315
Call No.	: TH 66.022 BAR-M
Title	: Renewable energy support mechanisms for efficient and sustainable power systems
Researcher	: Bindal, Shilpa
Department	: Department of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Abhyankar, Abhijit R. (Prof.) - EE (Guide)
Physical description	: xviii, 135 p.
Subject terms	: Energy consumption; Power injection; System operation; Distributed energy resources; Design Philosophy
Barcode	: TH8316
Call No.	: TH 620.91:502.131.1 BIN-R
Title	: Mixing in a basic oxygen furnace (BOF) under combined blowing conditions: cold-flow measurement and development of CFD model
Researcher	: Biswas, Sayantan
Department	: Department of Chemical Engineering, IITD
Year	: 2025
Supervisor	: Buwa, Vivek V. (Prof.) - CHE (Guide)
Physical description	: xxiii, 209 p.
Subject terms	: Capillary; Density; Viscosity; Interfacial tension; Gravitational force
Barcode	: TH8317
Call No.	: TH 66.040.4 BIS-M

Title	: Cosmic phase transitions and gravitational waves: a quest for physics beyond the standard electroweak model
Researcher	: Borah, Pankaj
Department	: Department of Physics, IITD
Year	: 2025
Supervisor	: Ghosh, Pradipta (Asst. Prof.) - PH (Guide)
Physical description	: xxv, 308 p.
Subject terms	: Gravitational waves; Standard model; Matter-antimatter; Astrophysics; Cosmology
Barcode	: TH8318
Call No.	: TH 524.8:531.5 BOR-C
Title	: Investigating dimensions of holistic education: neurocognitive study of values, empathy and mindfulness
Researcher	: Brahmi, Mannu
Department	: National Resource Centre for Value Education in Engineering, IITD
Year	: 2025
Supervisor	: Jyoti Kumar (Prof.) - DE (Guide)
Physical description	: xiv, 244 p.
Subject terms	: Correlational analysis; Arithmetic proficiency; Tristage breath awareness; Neural oscillation; Spectral power
Barcode	: TH8319
Call No.	: TH 37.013.41 BRA-I
Title	: Perception of four-way laryngeal contrast in two-way contrast languages
Researcher	: Chaurasiya, Krishan
Department	: Department of Humanities and Social Sciences IITD
Year	: 2025
Supervisor	: Sanyal, Paroma (Assoc. Prof.) - HSS (Guide)
Physical description	: xviii, 270 p.
Subject terms	: Interlanguage grammar; Literature; Malayalam; Phonology; Speech perception
Barcode	: TH8320
Call No.	: TH 81'344 CHA-P
Title	: Fracture mechanics of bicrystal silicon using near-tip mechanics at the atomistic scale
Researcher	: Dutta, Sunil Kumar
Department	: Department of Applied Mechanics, IITD
Year	: 2025

Supervisor	: Singh, Gaurav (Assoc. Prof.) - AM (Guide)
Physical description	: xx, 191 p.
Subject terms	: Stress intensity factor; Anisotropic material; Atomistic scale; Grain boundary; Crack tip
Barcode	: TH8321
Call No.	: TH 620.17 DUT-F
Title	: Hydrologic modelling with SWAT and bivariate risk analysis based floodplain mapping of river Awash, Ethiopia
Researcher	: Hagos, Teklay Gebreagziabhier
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: Khosa, Rakesh (Prof.) - CE (Guide); Gosain, A. K. (Prof.) - CE (Guide)
Physical description	: xv, 249 p.
Subject terms	: Droughts; Flood hazards; Severity; Hydrodynamic model; SWAT model
Barcode	: TH8322
Call No.	: TH 626/627 HAG-H
Title	: Modelling impacts of land use land cover and climate changes on runoff and sedimentation in the upper Jhelum basin
Researcher	: Islam, Shahid Ul
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: Chakma, Sumedha (Prof.) - CE (Guide)
Physical description	: xvi, 229 p.
Subject terms	: Hydrologic alteration; Soil erosion; Rainfall erosivity; Sediment yield modeling; Hydrological impacts
Barcode	: TH8323
Call No.	: TH 627.43 ISL-M
Title	: Understanding work experiences and subjective career success in academia: a mixed methods approach
Researcher	: Aarathi K.
Department	: Department of Management Studies, IITD
Year	: 2025
Supervisor	: Sinha, Shuchi (Assoc. Prof.) - MS (Guide)
Physical description	: xvii, 202 p.
Subject terms	: Subjective career success; Work role identity salience; Teaching research career; Social capital; Networking
Barcode	: TH8324
Call No.	: TH 378.147 AAR-U

Title	: Scalable MBE growth and characterization of 2D-MoSe2 and its heterostructures for advanced photodetection applications
Researcher	: Kandar, Santanu
Department	: Department of Physics, IITD
Year	: 2025
Supervisor	: Singh, Rajendra (Prof.) - PH (Guide)
Physical description	: xxviii, 191 p.
Subject terms	: Photodetector; Noise equivalent power; Molecular beam; Photolithography; Electron microscopy
Barcode	: TH8325
Call No.	: TH 535.8 KAN-S
Title	: Peptide biologics for effective management of breast cancer and fungal keratitis
Researcher	: Kaur, Prasanjeet
Department	: Kusuma School of Biological Sciences, IITD
Year	: 2025
Supervisor	: Chugh, Archana (Prof.) - SBS (Guide)
Physical description	: xxiv, 189 p.
Subject terms	: Cytotoxicity; Molecular dynamics; Biochemical analysis; Water penetration; Bilayer thinning
Barcode	: TH8326
Call No.	: TH 618.19:617.7 KAU-P
Title	: OPF frameworks for DSO operational coordination and market models
Researcher	: Khandelwal, Meenakshi
Department	: Department of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Abhyankar, Abhijit R. (Prof.) - EE (Guide)
Physical description	: xxix, 200 p.
Subject terms	: Active distribution network; Distributed energy resources; DER aggregator; Distribution locational marginal prices; Distribution system operator
Barcode	: TH8327
Call No.	: TH 621.311.2 KHA-O
Title	: Glycal based approach to the synthesis of (+)-kirkamide, amino-polyhydroxy carbocycles and sugar-iminosugar hybrid molecules
Researcher	: Kulshrestha, Abhishek
Department	: Department of Chemistry, IITD

Year	: 2025
Supervisor	: Ramesh, N. G. (Prof.) - CHY (Guide)
Physical description	: xxii, 228 p.
Subject terms	: Ring-closing methathesis; C6N aminocyclitol; Sugar-iminosugar hybrid molecules; Diversity-oriented synthetic; Grignard reaction
Barcode	: TH8328
Call No.	: TH 547.91 KUL-G
Title	: Microstructure, mass transport, and corrosion of steel in carbonated systems with supplementary cementitious materials
Researcher	: Lupesh
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: Bishnoi, Shashank (Prof.) - CE (Guide)
Physical description	: xxi, 237 p.
Subject terms	: Supplementary cementitious materials; Carbonation; Microstructure characterisation; Chemical composition; Fourier transform infrared spectroscopy
Barcode	: TH8329
Call No.	: TH 691.32:620.193 LUP-M
Title	: Tuning the surface of metal oxide/oxyhydroxide nanocrystals by inorganic polyanions for photo(electro)catalytic applications
Researcher	: Mallick, Laxmikanta
Department	: Department of Chemistry, IITD
Year	: 2025
Supervisor	: Chakraborty, Biswarup (Assoc. Prof.) - CHY (Guide)
Physical description	: xli, 263 p.
Subject terms	: Photochemical reaction; Environmental feasibility; Quantum dots; Optoelectronic; Nitrate reduction
Barcode	: TH8330
Call No.	: TH 546.3:544.47 MAL-T
Title	: Asymmetric synthesis of non-biaryl C-C atropisomers and spiro-oxindoles
Researcher	: Manju Devi
Department	: Department of Chemistry, IITD
Year	: 2025
Supervisor	: Singh Ravi P. (Prof.) - CHY (Guide)
Physical description	: xx, 275 p.
Subject terms	: Asymmetric catalysis; Nucleophile; Oxidation; Cyclization; Halogen

Barcode	: TH8331
Call No.	: TH 547.52 MAN-A
Title	: Physical modelling of encased stone columns with tire-derived aggregates: model and field experiments
Researcher	: Modalavalasa, Upendra
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: Ayothiraman, R. (Prof.) - CE (Guide)
Physical description	: xxx, 248 p.
Subject terms	: Industrialization; Geotechnical engineering; Shear strength; Strain gauges; Tensile strength
Barcode	: TH8332
Call No.	: TH 624.131.7 MOD-P
Title	: Synchronization conditions for nonlinear oscillator networks
Researcher	: Pandey, Sanjeev Kumar
Department	: Depart of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Sen, Shaunak (Prof.) - EE (Guide); Kar, Indra Narayan (Prof.) - EE (Guide)
Physical description	: xxi, 193 p.
Subject terms	: Identical coupling; Non-identical coupling; Floquet theory; Master stability function; Remote synchronization
Barcode	: TH8333
Call No.	: TH 621.3.034 PAN-S
Title	: Upstream process optimization for biotherapeutics production
Researcher	: Patil, Rucha Suhas
Department	: Department of Chemical Engineering, IITD
Year	: 2025
Supervisor	: Rathore, Anurag S. (Prof.) - CHE (Guide)
Physical description	: xx, 177 p.
Subject terms	: Amino acids; Biomass concentration; E.coli; Metabolic strain; Protein yields
Barcode	: TH8334
Call No.	: TH 615.32 PAT-U
Title	: Boiling performance enhancement through engineered surface structures and jet flow for high heat flux applications
Researcher	: Rajesh Kumar

Department	: Department of Mechanical Engineering, IITD
Year	: 2025
Supervisor	: Premachandran, B. (Prof.) - ME (Guide)
Physical description	: xxii, 272 p.
Subject terms	: Environmental sustainability; Heat transfer; Electronic devices; V-groove microchannels; Trapezoidal reentrant
Barcode	: TH8335
Call No.	: TH 62-4:536.21 RAJ-B
Title	: Photocatalyst- assisted single electron transfer- induced heterocycle synthesis and functionalization in visible light
Researcher	: Rajput, Shruti
Department	: Department of Chemistry, IITD
Year	: 2025
Supervisor	: Jain, Nidhi (Prof.) - CHY (Guide)
Physical description	: xxvii, 364 p.
Subject terms	: Nitrogen; Superoxide; Resonance; Voltammetry; Spectroscopic studies
Barcode	: TH8336
Call No.	: TH 547.7 RAJ-P
Title	: Modeling and statistical analysis of automotive radar networks using line cox processes
Researcher	: Shah, Mohammad Taha
Department	: Bharti School of Telecommunications and Management, IITD
Year	: 2025
Supervisor	: Ghatak, Gourab (Asst. Prof.) - EE (Guide)
Physical description	: xvii, 160 p.
Subject terms	: Binomial line; Automotive radar; Suburban environment; Spatial metrics; Wireless networks
Barcode	: TH8337
Call No.	: TH 621.396.62 SHA-M
Title	: Study of resistive switching phenomenon in nanostructure materials and their nanocomposites
Researcher	: Sharma, Aman
Department	: Department of Physics, IITD
Year	: 2025
Supervisor	: Khare, Neeraj (Prof.) - PH (Guide)
Physical description	: xx, 115 p.

Subject terms	:	Composite device; Conduction; Resistive switching; Resistance ratio; Semiconductor
Barcode	:	TH8338
Call No.	:	TH 620.3 SHA-S
Title	:	Secularism and gender justice: philosophical perspectives on the uniform civil code
Researcher	:	Ismailee, Sania
Department	:	Department of Humanities and Social Sciences, IITD
Year	:	2025
Supervisor	:	Burra, Arudra (Asst. Prof.) - HSS (Guide)
Physical description	:	xxi, 180 p,
Subject terms	:	Family laws in India; Central arguments; Uniform civil code; Contextualism in political theory; Secularism in India
Barcode	:	TH8339
Call No.	:	TH 2-42:305 ISM-S
Title	:	Design of time delay integration (TDI) CMOS image sensors
Researcher	:	Singh, Rahul Kumar
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Sarkar, Mukul (Prof.) - EE (Guide)
Physical description	:	xv, 105 p.
Subject terms	:	Signal-to-noise ratio; Conversion gain; Low power image sensors; Programmable gain amplifiers; Pulse width modulated
Barcode	:	TH8340
Call No.	:	TH 621.317.7 SIN-D
Title	:	Transition metal dichalcogenide based nanoheterostructure for energy storage and optoelectronic applications
Researcher	:	Singh, Sahil
Department	:	Department of Chemistry, IITD
Year	:	2025
Supervisor	:	Sapra, Sameer (Prof.) - CHY (Guide)
Physical description	:	xxvii, 190 p.
Subject terms	:	Nano heterostructures; Metal chalcogenides; Absorption window; Selenium vaccines; Nucleation
Barcode	:	TH8341
Call No.	:	TH 661.88:621.383 SIN-T

Title	: Virtual endoscopy to generate benchmark datasets to augment endoscopic video analysis
Researcher	: Singh, Sarita
Department	: Department of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Bhaumik, Basabi (Prof.) - EE (Guide); Chatterjee, Shouribrata (Prof.) - EE (Guide)
Physical description	: xxiii, 187 p.
Subject terms	: Gastrointestinal tract; Invasive diagnosis; Wireless capsule; Deep learning; Ulcerative colitis
Barcode	: TH8342
Call No.	: TH 616-073 SIN-V
Title	: Studies on phytobioactive inhibitors for Alzheimer's disease and their encapsulation in liposomes for effective delivery
Researcher	: Srivastava, Sukriti
Department	: Department of Chemistry, IITD
Year	: 2025
Supervisor	: Khare, Sunil K. (Prof.) - CHY (Guide); Deep, Shashank (Prof.) - CHY (Guide)
Physical description	: xxxvi, 341 p.
Subject terms	: Protein cleaving; Enzyme; Fibril elongation; Peptides; Amorphous aggregates
Barcode	: TH8343
Call No.	: TH 616.89 SRI-S
Title	: Utilization of solid wastes for the development of vibration damping materials
Researcher	: Sunali
Department	: Centre for Automotive Research and Tribology, IITD
Year	: 2025
Supervisor	: Fatima, S. (Prof.) - CART (Guide)
Physical description	: xxiv, 191 p.
Subject terms	: Agriculture; Industry; Mining; Groundwater contamination; Health hazards
Barcode	: TH8344
Call No.	: TH 628.477 SUN-U
Title	: Natural fibre-based prefabricated vertical drains: a sustainable alternative for soft soil consolidation
Researcher	: Woyessa, Temesgen Regassa
Department	: Department of Textile and Fibre Engineering, IITD

Year	:	2025
Supervisor	:	Chattopadhyay, R. (Prof.) - TFE (Guide); Ramana, G. V. (Prof.) - CE (Guide)
Physical description	:	xxiv, 178 p.
Subject terms	:	Vertical drains; Ground improvement; Drainage behaviour; Jute yarns; Capillary siphon tests
Barcode	:	TH8345
Call No.	:	TH 624.131.4 WOY-N
Title	:	Transport and Ultrafast terahertz emission studies on epitaxial Co ₂ MnGe thin films
Researcher	:	Yadav, Ekta
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Sunil Kumar (Assoc. Prof.) - PH (Guide)
Physical description	:	xxix, 142 p.
Subject terms	:	Pulsed laser deposition techniques; full Heusler alloys; Atomic force microscopy; Magneto transport measurements; Tunable electronic properties
Barcode	:	TH8346
Call No.	:	TH 538.975 YAD-T
Title	:	Characterization of capillary driven flow in layered porous media
Researcher	:	Agarwal, Akshit
Department	:	Department of Chemical Engineering, IITD
Year	:	2025
Supervisor	:	Ghosh, Somnath (Asst. Prof.) -CHE (Guide)
Physical description	:	xviii, 121 p.
Subject terms	:	Spontaneous imbibition; Geological carbon sequestration; Paper microfluidics; Permeability; Capillary pressure
Barcode	:	TH8347
Call No.	:	TH 543.544.73 AGA-C
Title	:	Emergent fractality in graphene-based twisted van der waals heterostructures
Researcher	:	Aggarwal, Deepanshu
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Narula, Rohit (Asst. Prof.) - PH (Guide); Ghosh, Sankalpa (Prof.) - PH (Guide)
Physical description	:	xxiii, 180 p.

Subject terms	:	Twisted bilayer graphene; Multilayer supermoire; Van hove singularityt; Hexagonal boron nitride; Fractal generators
Barcode	:	TH8348
Call No.	:	TH 537.312 AGG-E
Title	:	Design and fabrication of piezoelectric microvalve for ULSI microfluidic application
Researcher	:	Ahmad, Imran
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Mitra, Bhaskar (Assoc. Prof.) - EE (Guide)
Physical description	:	xvii, 137 p.
Subject terms	:	Nanocomposite; Microanalyzer; Perylene membrane; Drop casting; Nano indentation
Barcode	:	TH8349
Call No.	:	TH 621.313 AHM-D
Title	:	Performance enhancement and emissions reduction in jaggery plants through clean combustion using processed agro-residue wastes
Researcher	:	Alok Kumar
Department	:	Department of Energy Science and Engineering, IITD
Year	:	2025
Supervisor	:	Tyagi, S. K. (Prof.) - ESE (Guide); Agrawal, K. (Asst. Prof.) - ME (Guide)
Physical description	:	xxiv, 215 p.
Subject terms	:	Seasons; Thermodynamics; Energy analysis; Environmental impact; Resource consumption
Barcode	:	TH8350
Call No.	:	TH 664.1.031 ALO-P
Title	:	Sports video analytics using deep learning
Researcher	:	Aneja, Tanu
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Lall, Brejesh (Prof.) - EE (Guide); Chaudhry, Santanu (Prof.) - EE (Guide)
Physical description	:	xix, 123 p.
Subject terms	:	Human action recognition; Empirical analysis; Conditional dependency; Open pose architecture; Transformer
Barcode	:	TH8351
Call No.	:	TH 796:004.89 ANE-S

Title	: Interpreting lived experiences and evolution of pandemic communication: a hermeneutic phenomenological inquiry
Researcher	: Arora, Sonal
Department	: Bharati School of Telecommunications Technology and Management, IITD
Year	: 2025
Supervisor	: Sagar, Mahim (Prof.) - BSTTM (Guide); Sehgal, Pooja - Gates Foundation (Guide)
Physical description	: xvii, 227 p.
Subject terms	: Communication; Pandemic; Effective messaging; COVID-19; Hermeneutic studies
Barcode	: TH8352
Call No.	: TH 316.728 ARO-I
Title	: Investigation of translational and rotational motion induced flow patterns in flapping wing aerodynamics
Researcher	: B., Binoy
Department	: Department of Mechanical Engineering, IITD
Year	: 2025
Supervisor	: Gupta, Amit (Prof.) - ME (Guide)
Physical description	: xiv, 113 p.
Subject terms	: Frequency; Kinematics; Amplitude; Stroke; Aerial vehicles
Barcode	: TH8353
Call No.	: TH 629.734.4 BIN-I
Title	: Developing an understanding of macroinvertebrate assemblage's response to the combined effect of changes in flow regimes, water quality and climate change in the Goulburn river in Australia
Researcher	: Banad, Sudeep
Department	: IIT Delhi and University of Queensland
Year	: 2025
Supervisor	: T. Dhanya C. (Prof.) - CE (Guide); Wei, Yongping - University of Queensland, Australia (Guide); Johnstone, Ron - University of Queensland, Australia (Guide)
Physical description	: xx, 125 p.
Subject terms	: Aquatic ecosystem; Macroinvertebrates; Taxonomic composition; Flow metrics; Water quality
Barcode	: TH8354
Call No.	: TH 628.16(282.294) BAN-D
Title	: Utilization of biochar and stabilized microbial consortium for enhanced biomethanation of rice straw
Researcher	: Bhujbal, Sachin Krushna

Department	: Centre for Rural Development and Technology, IITD
Year	: 2025
Supervisor	: Vijay, Virendra Kumar (Prof.) - CRDT (Guide); Ghosh, Pooja (Assoc. Prof.) - CRDT (Guide)
Physical description	: xxxiii, 229 p.
Subject terms	: Lignocellulosic biomass; Fluid microbial consortium; Immobilization capability; Crop residue management; Biochar production
Barcode	: TH8355
Call No.	: TH 677.546 BHU-U
Title	: Far-from-equilibrium dynamics in calamitic and bent-core liquid crystals
Researcher	: Birdi, Nishant
Department	: School of Interdisciplinary Research (SIRE)
Year	: 2025
Supervisor	: Puri, Sanjay (Prof.) - JNU, New Delhi (Guide); Banerjee, Varsha (Prof.) - PH (Guide)
Physical description	: xxvii, 209 p.
Subject terms	: Topological defects; Lebwohl-Lasher model; Bent-core liquid crystals; Correlation function; Lebwohl-Laser model
Barcode	: TH8356
Call No.	: TH 536.75 BIR-F
Title	: Surface modification of poly (ethylene terephthalate) (PET) for multifunctional properties
Researcher	: Chandrakar, Karan
Department	: Department of Textile and Fibre Engineering, IITD
Year	: 2025
Supervisor	: Agrawal, Ashwini K. (Prof.) - TFE (Guide); Jassal, Manjeet (Prof.) - TFE (Guide)
Physical description	: xxxiii, 268 p.
Subject terms	: Active wear; Fabric; Moisture management; Hydrophilicity; Biocompatible
Barcode	: TH8357
Call No.	: TH 677.027 CHA-S
Title	: Vector wave propagation methods for guided-wave photonic structures
Researcher	: Choudhary, Pratiksha
Department	: Department of Physics, IITD
Year	: 2025
Supervisor	: Sharma, Anurag (Prof.) - PH (Guide); Varshney, R. K. (Prof.) - PH (Guide)

Physical description	: xix, 132 p.
Subject terms	: Cladding; Lower index materials; Polymers; Wavelength; Lithium niobate
Barcode	: TH8358
Call No.	: TH 535.2 CHO-V
Title	: Studies on shape memory-coupled-piezoelectric nanocomposites
Researcher	: Chowdhury, Anupam
Department	: Department of Textile and Fiber Engineering, IITD
Year	: 2025
Supervisor	: Ali, S. Wazed (Prof.) - TFE (Guide); Bipin Kumar (Assoc. Prof.) - TFE (Guide)
Physical description	: xxiii, 208 p.
Subject terms	: Electroactive polymers; Magnetostrictive materials; Piezoelectric polymer; Combining shape memory polymer; Piezoelectric filler
Barcode	: TH8359
Call No.	: TH 677.494 CHO-S
Title	: Brand building using digital marketing-study of K-12 schools in India
Researcher	: Deepshikha
Department	: Bharti School of Telecommunication Technology and Management, IITD
Year	: 2025
Supervisor	: Chaudhry, Harish (Prof.) - DMS (Guide)
Physical description	: 253 p.
Subject terms	: Higher education institutions; Brand equity; Word of mouth; Engagement; Social media marketing
Barcode	: TH8360
Call No.	: TH 659.126:373(540) DEE-B
Title	: Employing urease-producing bacteria from the hilly regions of India for mitigating rainfall-induced soil erosion
Researcher	: Devrani, Rituraj
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: Vangla, Prashanth (Assoc. Prof.) - CE (Guide); Sharma, Shilpi (Prof.) - BEB (Guide)
Physical description	: xxvii, 217 p.
Subject terms	: Soil stabilization techniques; Bio-cementation; Microbial-induced calcite precipitation; Calcium carbonate crystals; Soil strength characteristics
Barcode	: TH8361

Call No.	: TH 631.459(235) DEV-E
Title	: Decision making under deep uncertainty modelling framework for robust water resource management in the upper Yamuna river basin, India
Researcher	: Dinesh Kumar
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: T. Dhanya C. (Prof.) - CE (Guide); Gosain, A. K. (Prof.) - CE (Guide)
Physical description	: xxv, 183 p.
Subject terms	: Water supply; Climate scenario; Dynamic adaption; Policy pathways; Seasonal variability
Barcode	: TH8362
Call No.	: TH 628.1(282.253.2) DIN-D
Title	: Extraction and recovery of critical metals (Ga and Ge) from industrial waste
Researcher	: Dubey, Priyanka
Department	: Department of Biochemical Engineering and Biotechnology, IITD
Year	: 2025
Supervisor	: Sreekrishnan, T. R. (Prof.) - BEB (Guide); Jain, Rohan - HIFRT, Germany (Guide)
Physical description	: xxi, 238 p.
Subject terms	: Semiconductors; Mineral association; Spectrometry; Nitric acid; Polymerisation
Barcode	: TH8363
Call No.	: TH 669.054.8 DUB-E
Title	: Polarization singularities: synthesis, characterization and application
Researcher	: Gangwar, Kapil Kumar
Department	: Department of Physics, IITD
Year	: 2025
Supervisor	: Senthilkumaran, P. (Prof.) - OPC (Guide)
Physical description	: xix, 136 p.
Subject terms	: Dammann grating; Optical techniques; Spin-orbit illumination; Spiral fringe formation; Optical vortex
Barcode	: TH8364
Call No.	: TH 535.5 GAN-P
Title	: Flow characteristics of real shear thickening fluids through various types of channels
Researcher	: Garima Vishal

Department	: Department of Chemical Engineering, IITD
Year	: 2025
Supervisor	: Pattnayek, Sudip K. (Prof.) - CHE (Guide); Sarker, Jayati (Prof.) - CHE (Guide)
Physical description	: 222 p.
Subject terms	: Non-Newtonaian fluid; Lattice Boltzmann method; Channel flow; Converging-diverging channel; Theoretical model
Barcode	: TH8365
Call No.	: TH 532.543 GAR-F
Title	: White-Box approach for health prognosis of Lithium-ion batteries under dynamic operating conditions
Researcher	: Ghosh, Nitika
Department	: Centre for Automotive Research and Tribology, IITD
Year	: 2025
Supervisor	: Deepak Kumar (Prof.) - CART (Guide); Garg, Akhil - HUST, China (Guide); Warnecke, Alexander - Hella GmbH, Germany (Guide)
Physical description	: xxii, 252 p.
Subject terms	: Gaussian; Hyper parameter; Architecture; Neural network; Health
Barcode	: TH8366
Call No.	: TH 621.35 GH0-W
Title	: Potential utilization of Mahua (Madhuca Longifolia) flowers for the development of value-added products
Researcher	: Gupta, Achala
Department	: Centre for Rural Development and Technology, IITD
Year	: 2025
Supervisor	: Sahu, Jatindra Kumar (Prof.) - CRDT (Guide); P., Hariprasad (Assoc. Prof.) - CRDT (Guide)
Physical description	: xvii, 178 p.
Subject terms	: Biofortification; Phytochemical reaction; Metabolomic analysis; Fructose; Fermentation
Barcode	: TH8367
Call No.	: TH 633.9 GUP-P
Title	: Convergence analysis of regularized learning algorithms for functional data
Researcher	: Gupta, Naveen
Department	: Department of Mathematics, IITD
Year	: 2025
Supervisor	: Sivananthan, S. (Prof.) - MA (Guide)
Physical description	: xx, 119 p.

Subject terms	:	Functional liner regression; Polynomial regression; Tikhonov regularization; General regularization method; Nystrom subsampling
Barcode	:	TH8368
Call No.	:	TH 517.5 GUP-C
Title	:	Un/reliability and im/probability in Dalit narratives: toward a Dalit narratology
Researcher	:	Gurjar, Kunwar Nitin Pratap
Department	:	Department of Humanities and Social Sciences, IITD
Year	:	2025
Supervisor	:	Multani, Angelie (Prof.) - HSS (Guide)
Physical description	:	xi, 208 p.
Subject terms	:	Narrative decontextualisation; Dalit autobiographical narrative; Aesthetic functions; Narrative gaps; Feminist narratology
Barcode	:	TH8369
Call No.	:	TH 316.34 GUR-U
Title	:	Isotropy groups of non-simple derivations of polynomial algebras
Researcher	:	Himanshu
Department	:	Department of Mathematics, IITD
Year	:	2025
Supervisor	:	Kour, Surjeet (Assoc. Prof.) - MA (Guide)
Physical description	:	xi, 116 p.
Subject terms	:	Quadratic derivation; Shamsuddin derivation; Homogeneous derivation; Lotka-Volterra derivation; Factorizable derivation
Barcode	:	TH8370
Call No.	:	TH 512.62 HIM-I
Title	:	Branding of non formal education institutes
Researcher	:	Jain, Nitin
Department	:	Department of Management Studies, IITD
Year	:	2025
Supervisor	:	Chaudhry, Harish (Prof.) - MS (Guide)
Physical description	:	x, 280 p.
Subject terms	:	Higher education; Academic performance; Physical infrastructure; Formal education; Corporate branding model
Barcode	:	TH8371
Call No.	:	TH 374:659.126 JAI-B
Title	:	Biogas-solid oxide fuel cell (SOFC) systems:: experimental and theoretical studies for integrated system development

Researcher	: K. Biju I.
Department	: Centre for Rural Development and Technology, IITD
Year	: 2025
Supervisor	: Vijay, Virendra Kumar (Prof.) - CRDT (Guide); Aravind, P. V. - University of Groningen, Netherlands (Guide)
Physical description	: xxi, 117 p.
Subject terms	: Renewable energy; Wastewater treatment plants; Internal combustion engines; Micro gas turbines; Environment and public health
Barcode	: TH8372
Call No.	: TH 662.767 BIJ-B
Title	: Behaviour of micropiles in glacial deposits under axial and lateral loads: field testing and numerical simulations
Researcher	: Kapil, Manish
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: Rao, K. S. (Prof.) - CE (Guide); Ayothiraman, R. (Prof.) - CE (Guide)
Physical description	: xxviii, 307 p.
Subject terms	: Himalayan glacier; Geological evolution; Glacial sediments; Geomorphology; Scanning electronic microscopy
Barcode	: TH8373
Call No.	: TH 624.154 KAP-B
Title	: Exploring crucial resources in the entrepreneurial journey: examining persistence and well-being through a mixed methods approach
Researcher	: Kapoor, Unnati
Department	: Department of Management Studies, IITD
Year	: 2025
Supervisor	: Sinha, Shuchi (Assoc. Prof.) - DMS (Guide)
Physical description	: xvi, 192 p.
Subject terms	: Human capital; Agility; Cofounders; Financial capital; Social pressure
Barcode	: TH8374
Call No.	: TH 658.114.5 KAP-E
Title	: Stereoselective cascade approaches involving 1,2- Phospha brook rearrangement/conjugate addition and cycloaddition reactions
Researcher	: Kaur, Ravneet
Department	: Department of Chemistry, IITD
Year	: 2025
Supervisor	: Singh, Ravi P. (Prof.) - CHY (Guide)

Physical description	: xvi, 265 p.
Subject terms	: Catalytic system; Enantioselective; Bronsted base; Annulation reaction; Chirality
Barcode	: TH8375
Call No.	: TH 547 KAU-S
Title	: Role of magnitude in loss aversion under risk
Researcher	: Khan, Ouroz
Department	: Department of Humanities and Social Sciences, IITD
Year	: 2025
Supervisor	: Mukherjee, Sumitava (Assoc. Prof.) - HSS (Guide)
Physical description	: xvii, 180 p.
Subject terms	: Judgement; Magnitude dependent loss; Choices; High magnitude groups; Cumulative prospect theory
Barcode	: TH8376
Call No.	: TH 330.131.7 KHA-R
Title	: Numerical modeling of reservoir sedimentation and desiltation techniques
Researcher	: Kilania, Suman
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: Chahar, B. R. (Prof.) - CE (Guide); Fahimuddin, Mohammad - Tractebel, Gurugram (Guide)
Physical description	: xvi, 356 p.
Subject terms	: Hydraulic flushing; Sediment bypass; Geometry; Turbulence; Dam
Barcode	: TH8377
Call No.	: TH 627.81 KIL-N
Title	: Physically informed deep learning framework for scalable streamflow modelling in India
Researcher	: Magotra, Bhanu
Department	: Department of Civil Engineering, IITD
Year	: 2025
Supervisor	: Saharia, Manabendra (Assoc. Prof.) - CE (Guide); T., Dhanya C. (Prof.) - CE (Guide)
Physical description	: xxiv, 125 p.
Subject terms	: Ecological health; Critical contribution; Streamflow; Water management; Ecological balance
Barcode	: TH8378
Call No.	: TH 626-335(540) MAG-P

Title	:	Design and fabrication of atmospheric pressure microglow, discharges for low-cost UV lamps
Researcher	:	Manzoor, Rumysa
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Mitra, Bhaskar (Assoc. Prof.) - EE (Guide)
Physical description	:	xxiv, 138 p.
Subject terms	:	Microplasma device fabrication; Anodization; Electron microscopy; Atomic force microscopy; Nanoindentation
Barcode	:	TH8379
Call No.	:	TH 621.327.4 MAN-D
Title	:	Control of synchronous reluctance motor drive for electric vehicle with solar PV and grid support
Researcher	:	Mishra, Saurabh
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Singh, Bhim (Prof.) - EE (Guide)
Physical description	:	xxi, 263 p.
Subject terms	:	Flux; Loop; Simulink platform; Synchronous reluctance; Voltage
Barcode	:	TH8380
Call No.	:	TH 629.064.5 MIS-C
Title	:	Development of an enterprise risk management model for renewable power project in India
Researcher	:	Narayan, Padam
Department	:	Department of Civil Engineering, IITD
Year	:	2025
Supervisor	:	Kar, Santu (Asst. Prof.) - CE (Guide); Jha, Neeraj Kumar (Prof.) - CE (Guide)
Physical description	:	xxi, 227 p.
Subject terms	:	Hydropower; Sustainability; Decarbonization; Solar power; Wind power
Barcode	:	TH8381
Call No.	:	TH 620.92:658(540) NAR-D
Title	:	Study of consumer awareness on cyber crimes and cyberlaw among Indian youth
Researcher	:	Nukala, Adithya
Department	:	Bharati School of Telecommunication Technology and Management, IITD

Year	: 2025
Supervisor	: Sagar, Mahim (Prof.) - MS (Guide); Krishna, Medudula Murali - Reliance Jio, Delhi (Guide)
Physical description	: 364 p.
Subject terms	: Information technology act; Information sharing; Digital protection measures; Technology adoption; Cyber policies
Barcode	: TH8382
Call No.	: TH 343.21(540) NUK-S
Title	: On the degenerate Whittaker space for GL ₄ (02)
Researcher	: Parashar, Ankita
Department	: Department of Mathematics, IITD
Year	: 2025
Supervisor	: Sarma, Ritumoni (Prof.) - MA (Guide); Patel, Shiv Prakash (Asst. Prof.) - MA (Guide)
Physical description	: x. 118 p.
Subject terms	: Parabolically; Cuspidal representation; Bruhat decomposition; Double cosets; Induced representation
Barcode	: TH8383
Call No.	: TH 512.7 PAR-O
Title	: Learning based solutions for lidar navigations under constrained environments
Researcher	: Prashant Kumar
Department	: Amar Nath and Shashi Khosla School of Information Technology, IITD
Year	: 2025
Supervisor	: Jagannath, Srikanta Bedathur (Prof.) - SIT (Guide); Kalra, Prem Kumar (Former Prof.) - CSE (Guide)
Physical description	: xiv, 127 p.
Subject terms	: Sparsity constraints; Adversarial point; Autonomous navigation; Robust technology; Foundational aspects
Barcode	: TH8384
Call No.	: TH 621.396.96 PRA-L
Title	: Studies on B-Lactamases and their inhibition using bioactive phytochemicals to overcome antibiotic resistance
Researcher	: Pooja
Department	: Department of Chemistry, IITD
Year	: 2025
Supervisor	: Khare, S. K. (Prof.) - CHY (Guide); Deep, Shashank (Prof.) - CHY (Guide)
Physical description	: xxvii, 259 p.

Subject terms	:	Molecular dynamics; Nitrocefin; Spectrophotometric; Fractional inhibitory concentration; Azadirachta indica
Barcode	:	TH8385
Call No.	:	TH 542.85 POO-S
Title	:	Deciphering structure-activity correlation in bimetallic metal oxide catalysts during electrochemical water splitting
Researcher	:	Rajput, Anubha
Department	:	Department of Chemistry, IITD
Year	:	2025
Supervisor	:	Chakraborty, Biswarup (Assoc. Prof.) - CHY (Guide)
Physical description	:	234 p.
Subject terms	:	Intergovernmental panel; Oxygen evolution reaction; Global temperature; Kinetics; Metal transition
Barcode	:	TH8386
Call No.	:	TH 544.654.2 RAJ-D
Title	:	Poly (Pyrrole) nanostructures based electrically conducting composite fibers
Researcher	:	Rana, Kiran
Department	:	Department of Textile and Fibre Engineering, IITD
Year	:	2025
Supervisor	:	Jassal, Manjeet (Prof.) - TFE (Guide); Agrawal, Ashwini K. (Prof.) - TFE (Guide)
Physical description	:	xxviii, 254 p.
Subject terms	:	Wearable electronics; Electrical conductivity; Fabrication; Polymeric nanostructures; Conductive fibers
Barcode	:	TH8387
Call No.	:	TH 678.067:620.3 RAN-D
Title	:	B-cell receptor characterization of plasmablasts and memory B cells in human Dengue natural infections
Researcher	:	Reddy, Elluri Seetharami
Department	:	Kusuma School of Biological Sciences, IITD and ICGB, New Delhi
Year	:	2025
Supervisor	:	Patel, Ashok Kumar (Assoc. Prof.) - SBS (Guide); Chandele, Anmol - ICGB, New Delhi (Guide)
Physical description	:	xxvii, 98 p.
Subject terms	:	Serotypes; Antigenically; Immune responses; Antibodies; Hypermutations
Barcode	:	TH8388
Call No.	:	TH 578.8 RED-B

Title	:	Experimental and numerical investigation of fire behaviour of concrete under biaxial stresses
Researcher	:	Saha, Souvik
Department	:	IIT Delhi and University of Queensland
Year	:	2025
Supervisor	:	Sahoo, Dipti Ranjan (Prof.) - CE (Guide); Serati, Mehdi - University of Queensland, Australia (Guide); Maluk, Cristian - University of Queensland, Australia (Guide)
Physical description	:	xxxiii, 169 p.
Subject terms	:	Thermomechanical; Hydrocarbon; Temperature distribution; Thermal properties; Test specimens
Barcode	:	TH8389
Call No.	:	TH 691.32 SAH-E
Title	:	Design, development and control of solar PV-wind driven DFIG based microgrids
Researcher	:	Sahoo, Sandeep Kumar
Department	:	Department of Electrical Engineering, IITD
Year	:	2025
Supervisor	:	Singh, Bhim (Prof.) - EE (Guide)
Physical description	:	xxxiv, 241 p.
Subject terms	:	Voltage sensors; Wire microgrid; Microlab box; Simulated performance; Opto coupler
Barcode	:	TH8390
Call No.	:	TH 621.311 SAH-D
Title	:	Exploring vanadium based polyanionic structures cathode materials for high voltage sodium-ion batteries
Researcher	:	Sapra, Simranjot Kaur
Department	:	Department of Physics, IITD
Year	:	2025
Supervisor	:	Dhaka, Rajendra S. (Prof.) - PH (Guide); Chang, Jeng-Kuei (Prof.) - NYCU, Taiwan (Guide)
Physical description	:	xxi, 229 p.
Subject terms	:	Electrolytes; Global energy; Electrochemical properties; Voltammetry; Morphological stability
Barcode	:	TH8391
Call No.	:	TH 537.222 SAP-E
Title	:	Role of innovation and technology transfer in entrepreneurial growth: a study of entrepreneurship education ecosystem
Researcher	:	Sengar, Neeraj

Department	: Department of Management Studies, IITD
Year	: 2025
Supervisor	: Chaudhry, Harish (Prof.) - MS (Guide)
Physical description	: xiii, 260 p.
Subject terms	: Structural modelling; Crafting; Innovation; Technology transfer; Commercialization
Barcode	: TH8392
Call No.	: TH 658.1 SEN-R
Title	: Analysis of aboveground and underground structures subjected to blast loading and blast-induced vibrations
Researcher	: Sharma, Harshada
Department	: School of Interdisciplinary Research, IITD
Year	: 2025
Supervisor	: Matsagar, Vasant (Prof.) - CE (Guide); Singh, Satinder Paul (Prof.) - ME (Guide)
Physical description	: xxxiii, 264 p.
Subject terms	: Air blast; Ground motions; Geo-medium; Wave arrival time; Numerical modeling
Barcode	: TH8393
Call No.	: TH 624.041 SHA-A
Title	: Magnetotransport and spin dynamics investigations on the weyl semi-metallic heusler alloy Co ₂ MnGa and its heterostructures
Researcher	: Sharma, Nikita
Department	: Department of Physics, IITD
Year	: 2025
Supervisor	: Chaudhary, Sujeet (Prof.) - PH (Guide)
Physical description	: xxi, 204 p.
Subject terms	: Spin-orbit coupling; Crystallographic ordering; Heterostructures; Topological insulator; Non-magnetic layer
Barcode	: TH8394
Call No.	: TH 530.145 SHA-M
Title	: Fictionalising the Anchalik: a study of Phanishwarnath Renu's provincial novels
Researcher	: Sharma, Sneha
Department	: Department of Humanities and Social Sciences, IITD
Year	: 2025
Supervisor	: Wakankar, Milind (Assoc. Prof.) - HSS (Guide)
Physical description	: viii, 206 p.

Subject terms	: Political; Ideological; Village realities; Geography; Critical writings
Barcode	: TH8395
Call No.	: TH 82-311.4 SHA-F
Title	: Design and development of solar PV integrated light electric vehicle using switched reluctance motor
Researcher	: Singh, Gurmeet
Department	: Department of Electrical Engineering, IIT Delhi
Year	: 2025
Supervisor	: Singh, Bhim (Prof.) - EE (Guide)
Physical description	: xv, 137 p.
Subject terms	: Solar photovoltaic array; Sliding mode observer; BDDC converter; Simpower system toolbox; Cuk converter
Barcode	: TH8396
Call No.	: TH 629.064.5 SIN-D
Title	: Impact of transportation demand management strategies: a case study of odd-even policy in Delhi, India
Researcher	: Soni, Ranjana
Department	: Transportation Research and Injury Prevention Centre, IITD
Year	: 2025
Supervisor	: Tiwari, Geetam (Prof.) - TRIPC (Guide); M, Manoj (Prof.) - CE (Guide)
Physical description	: xxv, 323 p.
Subject terms	: Graded response action plan; Transport growth; Average speeds; Spatial variation; Road categories
Barcode	: TH8397
Call No.	: TH 656.07 SON-I
Title	: Analysis design and control of solar PV-system with battery for improved utilization of diesel generator set
Researcher	: Taneja, Gopal Krishan
Department	: Department of Energy Science and Engineering, IITD
Year	: 2025
Supervisor	: Singh, Bhim (Prof.) - EE (Guide); Verma, Ashu (Prof.) - ESE (Guide)
Physical description	: xvi, 134 p.
Subject terms	: Power quality; Microgrids; Islanding detection; Bidirectional converter; Voltage vector
Barcode	: TH8398
Call No.	: TH 621.311.243 TAN-A

Title	: Some studies on accessible mobile interfaces for visually challenged
Researcher	: Tanwar, Sachin
Department	: Department of Design, IIT Delhi
Year	: 2025
Supervisor	: Rao, P.V. Madhusudan (Prof.) - DE (Guide)
Physical description	: xv, 203 p.
Subject terms	: Touch target size; CSS pixel; Optical character recognition; Job access with speech; Accessible rich internet applications
Barcode	: TH8399
Call No.	: TH 7.05:376-056.262 TAN-S
Title	: Influence of walking infrastructure on pedestrian safety perception and route choice
Researcher	: Tony, Neba C.
Department	: Transportation Research and Injury Prevention Centre, IIT Delhi
Year	: 2025
Supervisor	: Tiwari, Geetam (Prof.) - TRIPC (Guide); M, Manoj (Assoc. Prof.) - CE (Guide); Chatterjee, Niladri (Prof.) - MA (Guide)
Physical description	: xxii, 317 p.
Subject terms	: Route preferences; Perceived route safety; Person map; Generation of shortest paths; Route length comparison
Barcode	: TH8400
Call No.	: TH 625.04 TON-I
Title	: Coupled electrothermal modelling with phase change material (PCM) and hybrid thermal management for LI-ION batteries
Researcher	: Vashisht, Sagar
Department	: Department of Energy Science and Engineering, IITD
Year	: 2025
Supervisor	: Rakshit, Dibakar (Prof.) - ESE (Guide)
Physical description	: xxi, 285 p.
Subject terms	: Renewable energy; Thermal runaway; Deep learning; Transformer; Circuit models
Barcode	: TH8401
Call No.	: TH 66-97 VAS-C
Title	: Wound rotor induction machine for medium voltage applications fed from series-connected inverter modules
Researcher	: Verma, Apurva
Department	: Department of Electrical Engineering, IIT Delhi
Year	: 2025

Supervisor	: Jain, Amit Kumar (Prof.) - EE (Guide)
Physical description	: xxxi, 171 p.
Subject terms	: DFIG-dc applications; Direct torque control; DCC strategy; Voltage balancing; Hysteresis control
Barcode	: TH8402
Call No.	: TH 621.313.33 VER-W
Title	: Development of lewis acid-promoted methodologies for C-N and C-S bond formation: unlocking the synthesis of amines, thioethers and n-heterocycles
Researcher	: Vishwakarma, Rahul
Department	: Department of Chemistry, IIT Delhi
Year	: 2025
Supervisor	: Hazra, Chinmoy Kumar (Assoc. Prof.) - CHY (Guide)
Physical description	: xiii, 266 p.
Subject terms	: Carbon-nitrogen; Reaction mechanism; Reductive animation; Substrate scope; Chalcogenation
Barcode	: TH8403
Call No.	: TH 547.233 VIS-D
Title	: Towards quantum memory using laser cooled cesium atoms
Researcher	: Yadav, Poonam
Department	: Department of Physics, IITD
Year	: 2025
Supervisor	: Santra, Bodhaditya (Asst. Prof.) - PH (Guide)
Physical description	: xix, 184 p.
Subject terms	: Gradient cooling; Decoherence measurement; Laser frequency; Quantum states; Fidelity
Barcode	: TH8404
Call No.	: TH 530.145 YAD-T
Title	: Integrated microfluids with patterned magnet and microfabricated sensors for Lab-on-a-chip applications
Researcher	: Yadav, Vinit Kumar
Department	: Department of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Mallick, Dhiman (Assoc. Prof.) - EE (Guide); Das, Samaresh (Prof.) - CARE (Guide)
Physical description	: xxix, 165 p.
Subject terms	: Superparamagnet; Iron oxide; Patterned micromagnet; Drug delivery; Microfluids
Barcode	: TH8405

Call No.	: TH 620.186 YAD-I
Title	: Planning scope in production: how grammar shapes incrementality
Researcher	: Zafar, Mudafia
Department	: Department of Humanities and Social Sciences, IITD
Year	: 2025
Supervisor	: Husain, Samar (Assoc. Prof.) - HSS (Guide)
Physical description	: xiv, 168 p.
Subject terms	: Verb planning; Linearization; Linguistic dependencies; Planning demonstrating; Lexically driven
Barcode	: TH8406
Call No.	: TH 81'36 ZAF-P
Title	: Wearable assistive technologies and AI-driven approaches for sleep apnea detection and monitoring
Researcher	: Bhongade, Amit
Department	: Department of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Gandhi, Tapan Kumar (Prof.) - EE (Guide); Prathosh A. P. - IISc. Bangalore (Guide)
Physical description	: xxxiii, 356 p.
Subject terms	: Cognitive functions; Neurology; Sleep disorders; Sensors; Machine learning
Barcode	: TH8407
Call No.	: TH 616.892.2:615.8 BHO-W
Title	: Corporate social responsibility and firm risk: evidence from India
Researcher	: Dhawan, Priya
Department	: Department of Management Studies, IITD
Year	: 2025
Supervisor	: Chaudhry, Neeru (Assoc. Prof.) - DMS (Guide)
Physical description	: x, 204 p.
Subject terms	: Bankruptcy; Firms; Financial crisis; Governance; Risk reduction
Barcode	: TH8408
Call No.	: TH 658:301.15 DHA-C
Title	: Steady and transient analysis of flow structures in tangentially injected turbulent swirling flows
Researcher	: Sharma, Rahul
Department	: Department of Mechanical Engineering, IITD

Year	: 2025
Supervisor	: Mayank Kumar (Assoc. Prof.) - ME (Guide)
Physical description	: xviii, 117 p.
Subject terms	: Burners; Furnaces; Isothermal; Stress transport; Recirculation zones
Barcode	: TH8409
Call No.	: TH 532.5 SHA-S
Title	: Performance analysis of liquid based battery thermal management system in electric vehicles
Researcher	: Vikram, Suyash
Department	: Department of Energy Science and Engineering, IITD
Year	: 2025
Supervisor	: Rakshit, Dibakar (Prof.) - ESE (Guide)
Physical description	: xxv, 207 p.
Subject terms	: Simulink; Ambient temperature; Transfer efficiency; LiB cells; Transformer oil
Barcode	: TH8410
Call No.	: TH 629.048.7 VIK-P
Title	: Role of fluid transport on sealing effectiveness of air curtains
Researcher	: Agrawal, Tanmay
Department	: Department of Applied Mechanics, IITD
Year	: 2025
Supervisor	: Jha, Narsing K. (Asst. Prof.) - AM (Guide); Chalamalla, Vamsi K. (Assoc. Prof) - AM (Giude)
Physical description	: xxix, 212 p.
Subject terms	: Velocity statistics; Neutrally buoyant; Effectiveness measurement; Lagrangian characterization; Discussion ana conclusion
Barcode	: TH8411
Call No.	: TH 532 AGR-R
Title	: Understanding the long-term impact of covid-19 on human brain: an MRI based study
Researcher	: Mishra, Sapna S.
Department	: Department of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Gandhi, Tapan Kumar (Prof.) - EE (Guide); Biswal, Bharat - NJIT, New Jersey (Guide)
Physical description	: xxiv, 173 p.
Subject terms	: Post - Covid syndrome; MRI acquisition; Surface based morphometry; Automated fiber quantification; Independent component analysis

Barcode	: TH8412
Call No.	: TH 616-036.21 MIS-U
Title	: Terrestrial fluxes in major Indian agroecosystems: a modeling study using the community land model (CLM5)
Researcher	: Kangari Narender Reddy
Department	: Center for Atmospheric Sciences, IITD
Year	: 2025
Supervisor	: Roy, Somnath Baidya (Prof.) - CAS (Guide)
Physical description	: xix, 124 p.
Subject terms	: Agroecosystems phenology; Calibration and evaluation; CLM5 Regional scale; Sensible heat flux; Evaluation of CLM5
Barcode	: TH8413
Call No.	: TH 551:631(540) RED-T
Title	: Study of temperature coefficient of resistance and bolometric properties of some transition metal dichalcogenide layered materials
Researcher	: Saxena, Shubham
Department	: Department of Electrical Engineering, IITD
Year	: 2025
Supervisor	: Rao, V. Ramgopal (Prof.) - EE (Guide); Das, Samaresh (Prof.) - CARE (Guide)
Physical description	: xxi, 119 p.
Subject terms	: Nanomechanical bolometer; Future perspective; Fabrication and characterization; Gate voltage temperature; Controlled TCR
Barcode	: TH8414
Call No.	: TH 620.1:681.586 SAX-S
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