

CENTRAL LIBRARY

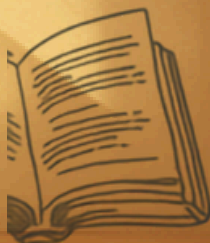
New Arrivals

Printed Books and Theses
(Added During 01st -31st July, 2026)

How to Recommend Book(s)?

You may Recommend the books by filling out recommendation forms available on the website:
<https://library.iitd.ac.in/page/book-recommendation> or
through the the online recommendation system:
<https://library.iitd.ac.in/page/obrs-new> using your
kerberos ID and password.

Scan the QR code
to explore
New Arrivals



CONTACT US:

COLLECTION DEVELOPMENT DIVISION

Central Library, IIT Delhi

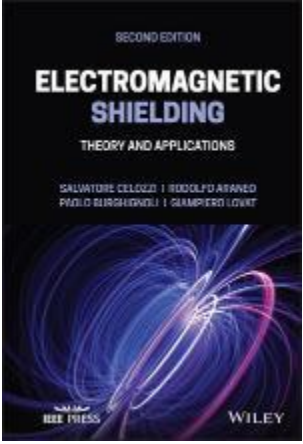
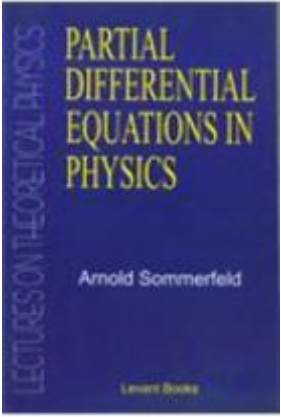
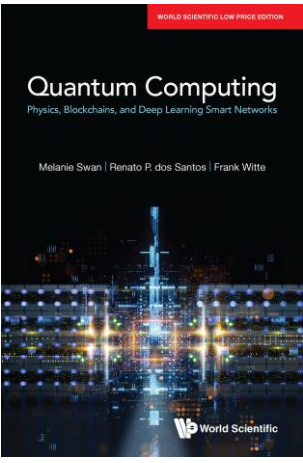
Email: cdd@library.iitd.ac.in

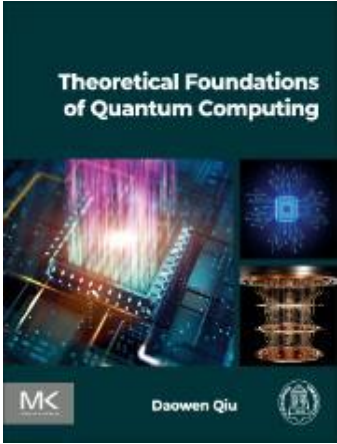
Phone: 011-2659-6652/6096

Table of Content

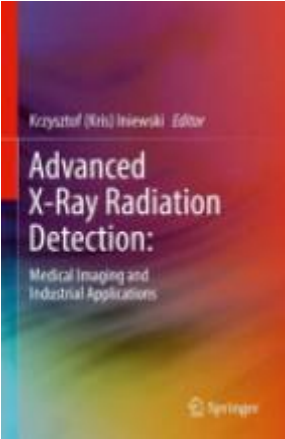
Departments/Centres/School/Units	Page no.
Applied Research in Electronics.....	2
Biomedical Engineering.....	3
Central Library*	4
Chemistry	4
Civil and Environmental Engineering.....	6
Design.....	8
Electrical Engineering	13
Energy Science and Engineering	16
Hindi Cell	17
Humanities and Social Sciences.....	17
IIT Hospital.....	23
Management Studies.....	23
Materials Science and Engineering.....	26
Mathematics	29
Mechanical Engineering	30
Optics and Photonics	33
Physics.....	34
Rural Development and Technology.....	38
Sensors Instrumentation and Cyber-physical System Engineering.....	38
Textile and Fibre Engineering	39
Theses Collection	40

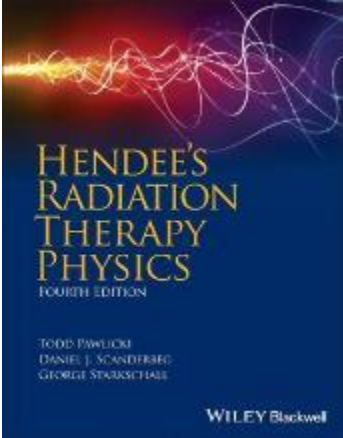
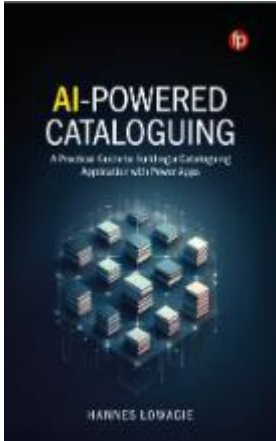
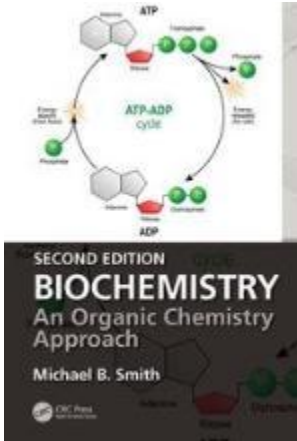
Applied Research in Electronics

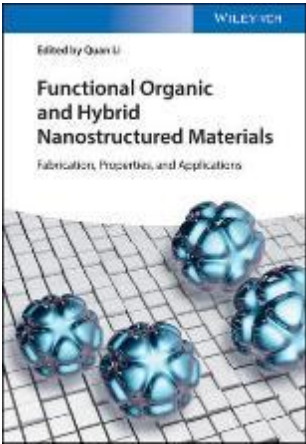
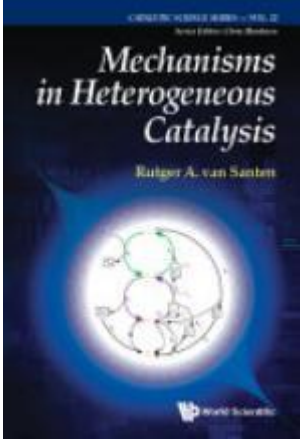
1		Electromagnetic shielding: theory and applications by Salvatore Celozzi... (et al.), 2nd ed., Hoboken: Wiley, 2023. xiv, 546 p. Includes index (p. 539-546) ISBN: 9781119736288 Subject Terms: Maxwell's equation; Wave equation; Transient shielding; Planer metal; Bethe's theory 537.8 -ELE Barcode: 181888; CL Click here for more details.
2		Partial differential equations in physics by Arnold Sommerfeld, Kolkata: Levant Books, 2004. vii, 335 p., Lectures on theoretical physics. Includes index (p. 331-335) ISBN: 9788187169499 Subject Terms: Gibb's phenomenon; Green's theorem; Riemann's integration; Heat conduction; Spherical harmonics 517.944:53 SOM-P Barcode: 181939; CARE Click here for more details.
3		Quantum computing: physics, blockchains, and deep learning smart networks by Melanie Swan, Renato P dos Santos and Frank Witte, London: World Scientific Publishing, 2024. xxi, 377 p. Includes index (p. 373-377) ISBN: 9798886130805 Subject Terms: Annealing machines; Ion trapping; Holographic; Cryptography; Probabilistic 530.145:004 SWA-Q Barcode: 181905-181906; CL; CARE Click here for more details.

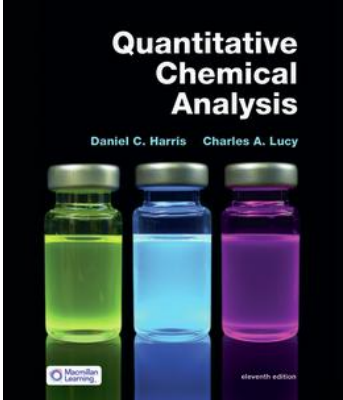
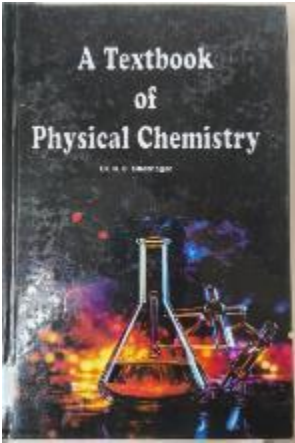
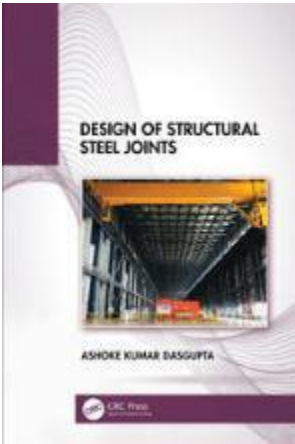
4		Theoretical foundations of quantum computing by Daowen Qiu, Cambridge: Elsevier, 2026. x, 284 p. Includes index (p. 277-284) ISBN: 9780443277047 Subject Terms: Linear operators; Superdense coding; Polynomial-time; Deutsch's algorithm; Stabilizer code 530.145 QIU-T Barcode: 181907; CARE Click here for more details.
---	---	---

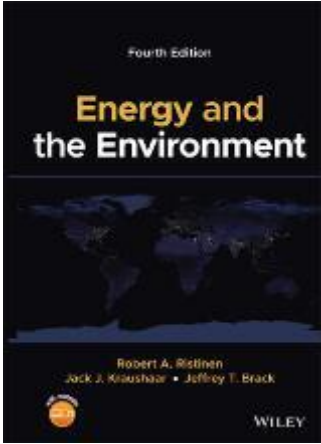
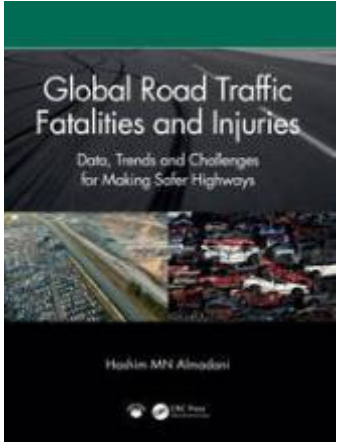
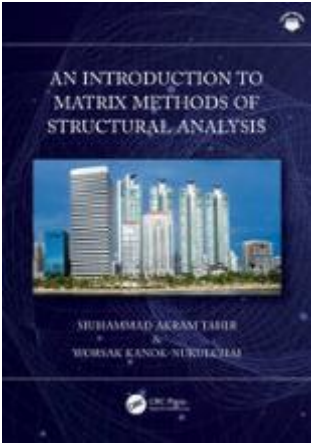
Biomedical Engineering

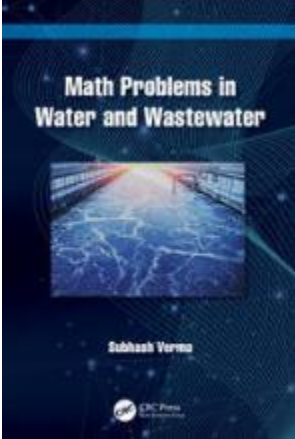
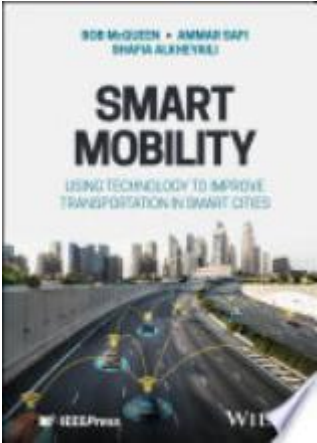
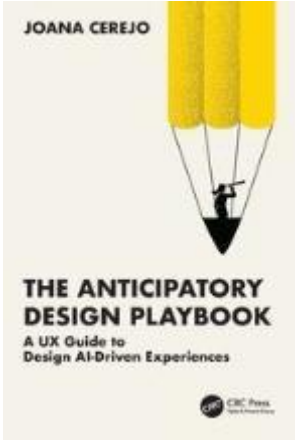
5		Advanced x-ray detector technologies: design and applications edited by Krzysztof (Kris) Iniewski, Cham: Springer, 2022. x, 295 p. Includes index (p. 287-295) ISBN: 9783030642785 Subject Terms: X-ray imaging; Digital radiography; Medical diagnostics; Photon-counting detectors; Radiation detection 616-073.7 -ADV Barcode: 181963; CL Click here for more details.
6		Advanced x-ray radiation detection: medical imaging and industrial applications edited by Krzysztof (Kris) Iniewski, Cham: Springer, 2023. vii, 281 p. Includes index (p. 279-281) ISBN: 9783030929886 Subject Terms: Detectors for x-ray imaging; Digital radiography; Radiation sensor; Diagnostic radiology; Radiation detection 616-073.7 -ADV Barcode: 181953; CL Click here for more details.
		Back to Content

7		Hendee's radiation therapy physics by Todd Pawlicki, Daniel J. Scanderberg and George Starkschall, 4th ed., Hoboken: Wiley, 2016. ix, 327 p. Includes index (p. 317-327) ISBN: 9780470376515 Subject Terms: Atomic structure; Medical imaging; Radiation oncology informatics; Proton radiation therapy; Radiation protection 615.84:53 PAW-H Barcode: 181861; CL Click here for more details.
Central Library*		
8		AI-powered cataloguing: a practical guide to building a cataloguing application with power apps by Hannes Lowagie, London: Facet Publishing, 2025. xxx, 177 p. Includes references and index (p.173-177) ISBN: 9781783308071 Subject Terms: Cataloging - Data processing; Digital cataloguing; Power platform ecosystem; Microsoft power platform; AI automation 025.3:004.85 LOW-A Barcode: 181954; CL Click here for more details.
Chemistry		
9		Biochemistry: an organic chemistry approach by Michael B. Smith, 2nd ed., Abingdon: CRC Press, 2026. xv, 387 p. Includes index (p. 377-387) ISBN: 9781032996196 Subject Terms: Hydrogen bonding; Cellular systems; Peptidases; Enzyme kinetics; Organometallics 577.1 SMI-B Barcode: 181979; CL Click here for more details.

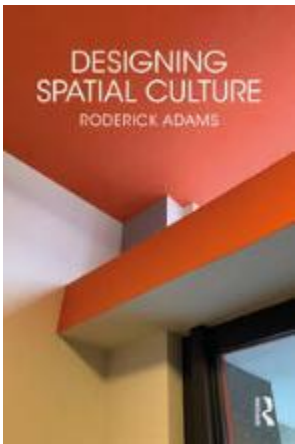
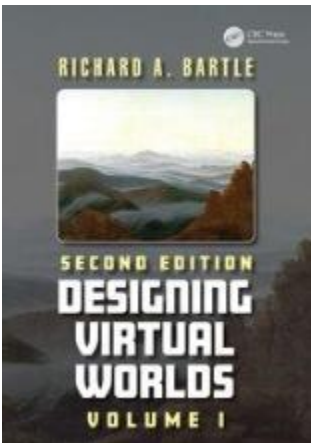
10		Functional organic and hybrid nanostructured materials: fabrication, properties, and applications edited by Quan Li, Weinheim: Wiley, 2018. xv, 637 p. Includes index (p. 623-636) ISBN: 9783527342549 Subject Terms: Composite materials; Inorganic compounds; Materials science; Nanostructured materials; Polymeric composites 620.3:620.1 -FUN Barcode: 181902; CL Click here for more details.
11		Handbook of organophosphorus chemistry edited by Deacon Palmer, New York: Murphy and Moore Publishing, 2023. vii, 244 p. Includes index (p. 243-244) ISBN: 9781639877386 Subject Terms: Organophosphates - Handbooks, manuals, etc.; Agrochemicals - Handbooks, manuals, etc.; Phosphorus chemistry - Handbooks, manuals, etc.; Pesticides - Handbooks, manuals, etc.; Heterocyclic phosphorus compounds - Handbooks, manuals, etc. RL-HB 547.1'13(021) -HAN Barcode: 181980; CL Click here for more details.
12		Mechanisms in heterogeneous catalysis by Rutger A. van Santen, London: World Scientific Publishing, 2024. xx, 696 p., Catalytic science series. Includes index (p. 693-696) ISBN: 9781800614000 Subject Terms: Catalyst design; Zeolite catalysts; Hydrocarbon conversion; Catalyst characterization; Petrochemical processes 544.47:544.344 VAN-M Barcode: 181892; CL Click here for more details.

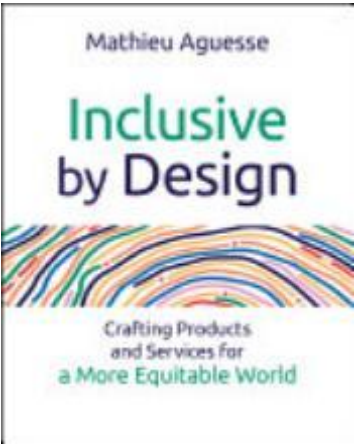
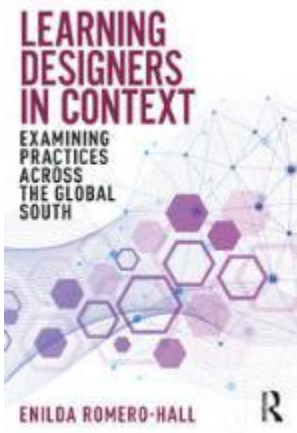
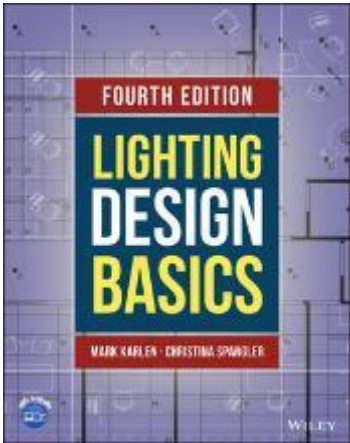
13		Quantitative chemical analysis by Daniel C. Harris and Charles A. Lucy, 11th ed., Dublin: Macmillan Publishers International Limited, 2026. v.p. Includes index ISBN: 9781319589974 Subject Terms: Chemistry measurement; Gas Chromatography; Calibration method; Chemical equilibrium; Redox titrations 543.062 HAR-Q Barcode: 181982-181986; TB Click here for more details.
14		Textbook of physical chemistry by R.C. Bhatnagar, Ghaziabad: Arrow books, 2025. ix, 296 p. Includes Bibliography and index (p. 293-296) ISBN: 9788196817985 Subject Terms: Entropy; Thermodynamic systems; Chemical equilibrium; Electromagnetic spectroscopy; Boyles law 544 BHA-T Barcode: 181972; CL Click here for more details.
Civil and Environmental Engineering		
15		Design of structural steel joints by Ashoke Kumar Dasgupta, Boca Raton: CRC Press, 2026. xiii, 328 p. Includes index (p. 327-328) ISBN: 9781032886886 Subject Terms: Jointing hollow sections; Bolted joint; Bearing bolt; Tubular section; Eccentric joint 624.078.4 DAS-D Barcode: 181967; CL Click here for more details.
		Back to Content

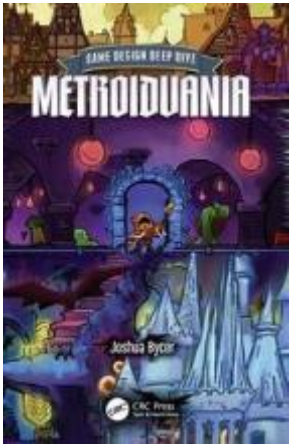
16		Energy and the environment by Robert A. Ristinen, Jack J. Kraushaar and Jeffrey T. Brack, 4th ed., Hoboken: Wiley, 2022. xvii, 344 p. Includes index (p. 337-344) ISBN: 9781119800255 Subject Terms: Fuel cycle; Oil shales; Heat engines; Renewable energy; Nuclear fusion 620.9:502.2 RIS-E Barcode: 181921; CL Click here for more details.
17		Global road traffic fatalities and injuries: data, trends and challenges for making safer highways by Hashim MN Almadani, Boca Raton: CRC Press, 2026. xii, 718 p. Includes index (p. 709-718) ISBN: 9781041097839 Subject Terms: Homicidal crashes; Accident; Probit models; Mortality atlas; Continental roads 656.11:614.8 ALM-G Barcode: 181938; CL Click here for more details.
18		Introduction to matrix methods of structural analysis By Muhammad Akram Tahir and Worsak Kanok-Nukulchai, Boca Raton: CRC Press, 2026. xi, 441 p. Includes index (p. 437-441) ISBN: 9781032586014 Subject Terms: Orthogonal; Divergence theorems; Strain energy; Discrete modeling; Kinematics 624.04:512.643 TAH-I Barcode: 181968; CL Click here for more details.

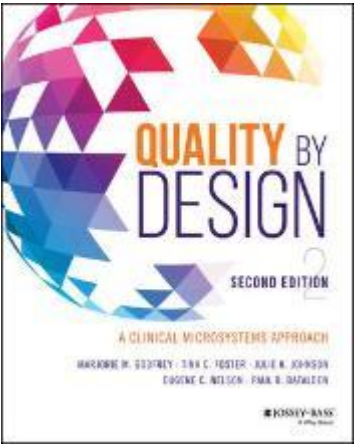
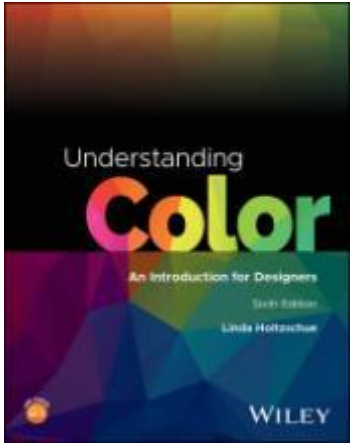
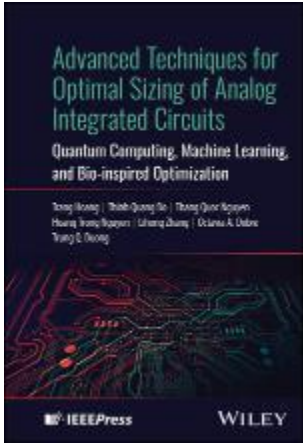
19		Math problems in water and wastewater by Subhash Verma, Boca Raton: CRC Press, 2026. xxi, 548 p. Includes index (p. 543-548) ISBN: 9781032743288 Subject Terms: Continuity equation; Dilution formula; Log removals; Weir overflow rate; Blending of sludges 628.16:51 VER-M Barcode: 181969; CL Click here for more details.
20		Smart mobility: using technology to improve transportation in smart cities by Bob McQueen, Ammar Safi and Shafia Alkheyaili, Hoboken: Wiley, 2024. xxix, 512 p. Includes index (p. 487-512) ISBN: 9781119847137 Subject Terms: Economic development; Urban transportation; Technological innovations; Traffic monitoring; Digital infrastructure 656:004 MCQ-S Barcode: 181862; CL Click here for more details.
Design		
21		Anticipatory design playbook: a UX guide to design AI-driven experiences by Joana Cerejo, Boca Raton: CRC Press, 2026. xvi, 271 p. Includes References and index (p. 263-271) ISBN: 9781041079101 Subject Terms: Machine learning; Generative AI; Designing anticipatory systems; Contextual intelligence; Intelligent recommendations 74:004.8 CER-A Barcode: 181864; CL Click here for more details.

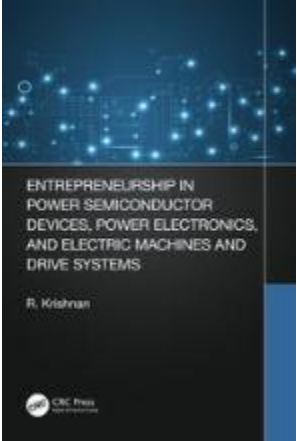
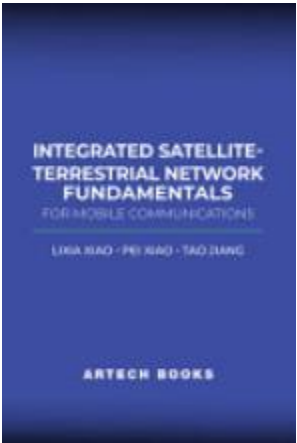
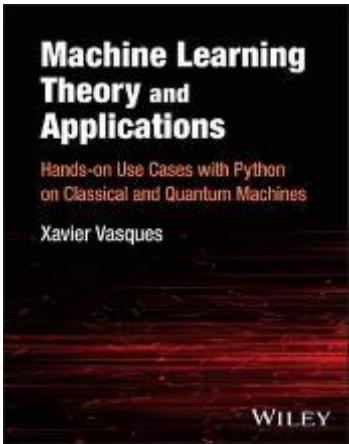
22		Critical research design: choices and considerations for creating an integrated research design by Balazs Szanto, New York: Routledge, 2025. vii, 222 p. Includes index (p. 221-222) ISBN: 9781032800240 Subject Terms: Research methodology; Research ethics; Interdisciplinary research; Scientific inquiry; Mixed methods research 303.4 SZA-C Barcode: 181869; CL Click here for more details.
23		Design for the unthinkable world: strange ecology and unwelcome change edited by Craig Bremner, Paul A. Rodgers, and Giovanni Innella, New York: Routledge, 2025. ix, 182 p. Includes index (p.177-182) ISBN: 9781032441443 Subject Terms: Environmental design; Ecological design; Climate change; Hyperobject design; Ecological innovation 74:111.62 -DES Barcode: 181870; CL Click here for more details.
24		Design of care edited by Craig Bremner... (et al.), New York: Routledge, 2026. xiii, 237 p. Includes index (p. 232-237) ISBN: 9781032890661 Subject Terms: Healthcare design; Care innovation; Wellbeing; Sustainable healthcare; Social innovation 614:616-083 -DES Barcode: 181877; CL Click here for more details.
		Back to Content

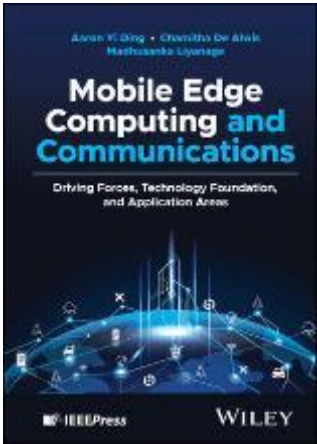
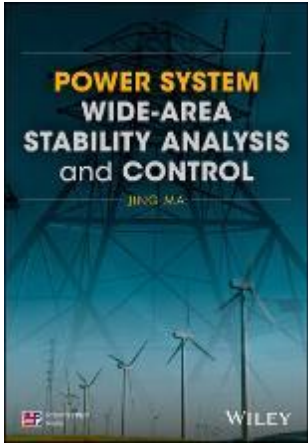
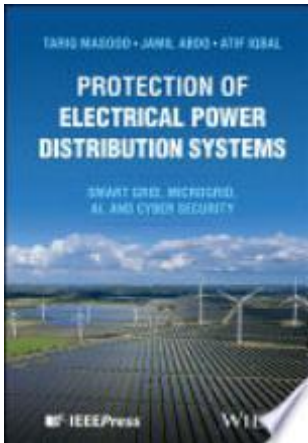
25		Designing for kids: creating for playing, learning and growing by Krystina Castella, 2nd ed., Abingdon: Routledge, 2026. xiii, 344 p. Includes bibliography and index (p. 316-344) ISBN: 9781032863931 Subject Terms: Children's spaces; Design process; Child development; Education; Creativity 74-053.2 CAS-D Barcode: 181863; CL Click here for more details.
26		Designing spatial culture by Roderick Adams, New York: Routledge, 2024. x, 178 p. Includes bibliography (p. 167-178) ISBN: 9781032218755 Subject Terms: Architecture - Human factors; Architecture and society; Cultural heritage; Sustainable design; Collective memory 72.01 ADA-D Barcode: 181913; DE Click here for more details.
27		Designing virtual worlds by Richard A. Bartle, 2nd ed., Boca Raton: CRC Press, 2026. xix, 555 p. Includes bibliography and index (p. 503-555) vol. 1 ISBN: 9781041174271 Subject Terms: Game development; Character design; Graphics Era; Animation; Demographics 74:004.946 BAR-D Barcode: 181865; CL Click here for more details.

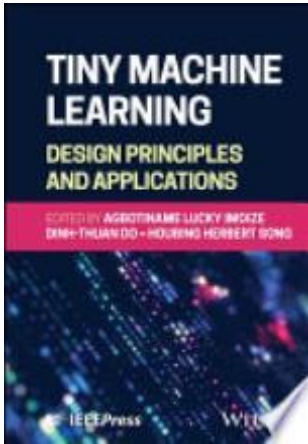
28		Inclusive by design: crafting products and services for a more equitable world by Mathieu Aguesse, Hoboken: Wiley, 2025. xxvii, 292 p. Includes index (p. 285-292) ISBN: 9781394310050 Subject Terms: Universal design; Human-centered design; Diversity; Design strategy; Sustainable design 74:364.6 AGU-I Barcode: 181914; CL Click here for more details.
29		Learning designers in context: examining practices across the global south by Enilda Romero-Hall, New York: Routledge, 2026. xiii, 127 p. Includes index (p. 123-127) ISBN: 9781032219233 Subject Terms: Instructional technology; Cross-cultural education; Instructional design; Comparative education; Learning environments 37.091.3:004 ROM-L Barcode: 181878; CL Click here for more details.
30		Lighting design basics by Mark Karlen and Christina spangler, 4th ed., Hoboken: Wiley, 2024. vii, 248 p. Includes index (p. 242-248) ISBN: 9781119803447 Subject Terms: Architectural lighting; Sustainable lighting; Visual comfort; Environmental design; Lighting technology 74:628.9 KAR-L Barcode: 181912; CL Click here for more details.

31		Living interaction design: the transition towards designed interactive living systems for regenerative ecologies by Valentina Rognoli... (et al.), New York: Routledge, 2026. xiv, 318 p. Includes index (p. 315-318) ISBN: 9781032433288 Subject Terms: Product design; Biofabrication; Synthetic biology; Ecological design; Sustainable design 745:573.3 -LIV Barcode: 181868; CL Click here for more details.
32		Mastering character design: design with intent and purpose by Caroline Hu, Boca Raton: CRC Press, 2025. viii, 139 p. Includes index (p. 139) ISBN: 9781032985039 Subject Terms: Design styles; Creative process; Character development; Design thinking; Illustration techniques 741.5 HU-M Barcode: 181867; CL Click here for more details.
33		Metroidvania by Joshua Bycer, Boca Raton: CRC Press, 2025. xi, 132 p., Game design deep dive. Includes index (p. 127-132) ISBN: 9781032943923 Subject Terms: World design; Action-platformer; Progression systems; Movement abilities; Replayability 74:794 BYC-M Barcode: 181866; CL Click here for more details.
		Back to Content

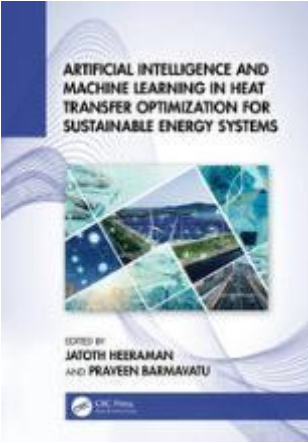
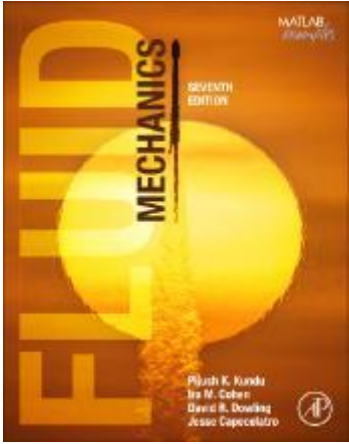
34		Quality by design: a clinical microsystems approach edited by Marjorie M. Godfrey... (et al.), 2nd ed., Hoboken: Wiley, 2025. xlviii, 512 p. Includes index (p. 495-512) ISBN: 9781119218692 Subject Terms: Health services administration; Health care leadership; Clinical governance; Health care management; Patient-centered care 614.2:658.56 -QUA Barcode: 181871; CL Click here for more details.
35		Understanding color: an introduction for designers by Linda Holtzschue, 6th ed., Hoboken: Wiley, 2025. xiii, 192 p. Includes Bibliography and index (p. 177-192) ISBN: 9781394186723 Subject Terms: Color in design; Color psychology; Visual communication; Design education; Visual arts 7.017.4 HOL-U Barcode: 181911; CL Click here for more details.
Electrical Engineering		
36		Advanced techniques for optimal sizing of analog integrated circuits: quantum computing, machine learning, and bio-inspired optimization by Trang Hoang... (et al.), Hoboken: Wiley, 2026. xviii, 150 p. Includes index (p. 143-150) ISBN: 9781394296231 Subject Terms: Topology; Genetic algorithm; Dynamic comparator; Global pollination; Neural networks 621.382 -ADV Barcode: 181889; CL Click here for more details.

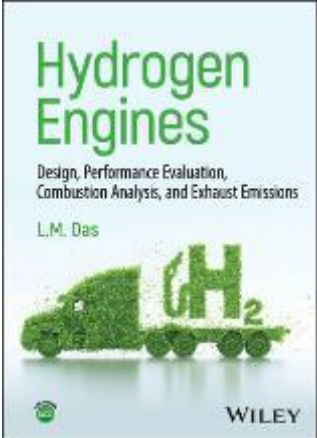
37		Entrepreneurship in power semiconductor devices, power electronics, and electric machines and drive systems by Krishnan Ramu, Boca Raton: CRC Press, 2024. xix, 429 p. Includes index (p. 427-429) ISBN: 9780367555054 Subject Terms: Power electronics; Smart power devices; Power converters; Energy conversion; Smart grid 621.382:658 KRI-E Barcode: 181971; CL Click here for more details.
38		Integrated satellite-terrestrial network fundamentals for mobile communications by Lixia Xiao, Pei Xiao and Tao Jiang, Norwood: Artech House, 2025. xii, 279 p. Includes index (p. 271-279) ISBN: 9781685690090 Subject Terms: Networking models; Star constellation; Linear block code; Modulation; Spectrum 621.396 XIA-I Barcode: 181934; CL Click here for more details.
39		Machine learning theory and applications: hands-on use cases with python on classical and quantum machines by Xavier Vasques, Hoboken: Wiley, 2024. xx, 487 p. Includes index (p. 477-487) ISBN: 9781394220618 Subject Terms: Confusion matrix; Linear interpolation; Natural language processing; Quantum computing; Quantum circuits 681.3 VAS-M Barcode: 181873; CL Click here for more details.

40		Mobile edge computing and communications: driving forces, technology foundation, and application areas by Aaron Yi Ding, Chamitha De Alwis and Madhusanka Liyanage, Hoboken: Wiley, 2025. xxi, 258 p. Includes references and index (p. 209-258) ISBN: 9781119611523 Subject Terms: Informatique mobile; Wireless communications; Network virtualization; Cloud computing; Edge security 621.391:004 DIN-M Barcode: 181935; CL Click here for more details.
41		Power system wide-area stability analysis and control by Jing Ma, Hoboken: Wiley, 2018. xii, 351 p. Includes index (p. 341-351) ISBN: 9781119304845 Subject Terms: Synchrophasor technology; Oscillation damping; Kalman filtering; Eigenvalue analysis; Grid resilience 621.311 MA-P Barcode: 181872; CL Click here for more details.
42		Protection of electrical power distribution systems: smart grid, microgrid, AI, and cyber security by Tariq Masood, Jamil Abdo and Atif Iqbal, Hoboken: Wiley, 2026. lvii, 357 p. Includes index (p. 351-357) ISBN: 9781394327645 Subject Terms: Protection transducers; Interturn fault; Stabilizing resistance; Digital relay; Microgrid operation 621.311.1 MAS-P Barcode: 181875; CL Click here for more details.
		Back to Content

43		Tiny machine learning: design principles and applications edited by Agbotiname Lucky Imoize, Dinh-Thuan Do and Houbing Herbert Song, Hoboken: Wiley, 2026. xxxviii, 737 p. Includes index (p. 721-737) ISBN: 9781394294541 Subject Terms: Neural architecture search; Pruning; Quantization; Anomaly detection; Irrigation controller 681.3 -TIN Barcode: 181874; CL Click here for more details.
----	---	---

Energy Science and Engineering

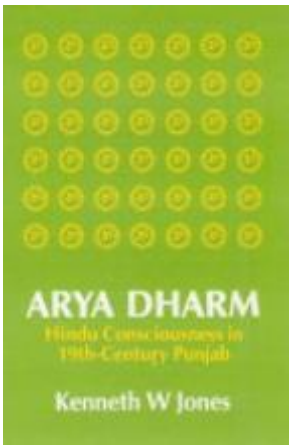
44		Artificial intelligence and machine learning in heat transfer optimization for sustainable energy systems edited by Jatoth Heeraman and Praveen Barmayatu, Boca Raton: CRC Press, 2026. xv, 356 p. Includes index (p. 355-356) ISBN: 9781041089698 Subject Terms: Clean Technologies; Deep Learning; Neural networks; Thermal management; Geothermal energy 620.9:004.85 -ART Barcode: 181955; CL Click here for more details.
45		Fluid mechanics by Pijush K. Kundu... (et al.), 7th ed., London: Academic Press, 2024. xxi, 695 p. Includes index (p. 687-695) ISBN: 9780128198070 Subject Terms: Hydraulic machinery; Cartesian tensors; Gravity waves; Turbulence; Aerodynamic 532 -FLU Barcode: 181915; CES Click here for more details.

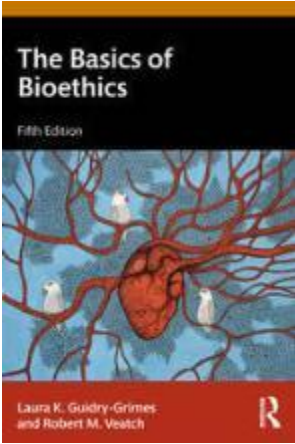
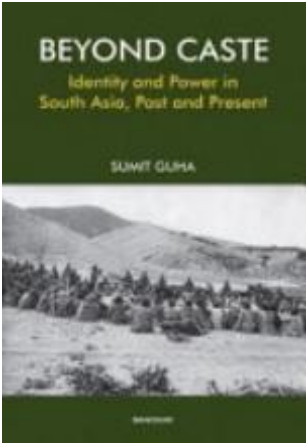
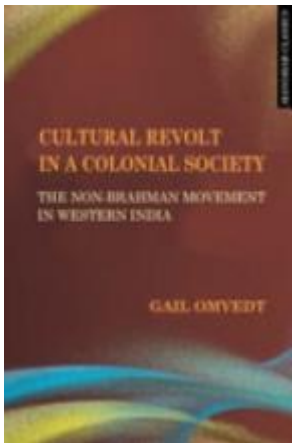
46		Hydrogen engines: design, performance evaluation, combustion analysis, and exhaust emissions by L. M. Das, Hoboken: Wiley, 2025. xivi, 414 p. Includes index (p. 4010-415) ISBN: 9781394245680 Subject Terms: Hydrogen combustion; Green hydrogen; Brake thermal efficiency; Combustion analysis; Flame propagation 621.43:662.769.2 DAS-H Barcode: 181909-181910; CL; ESE Click here for more details.
----	---	---

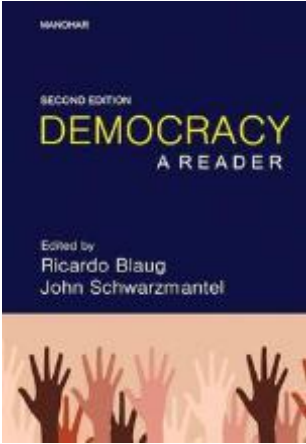
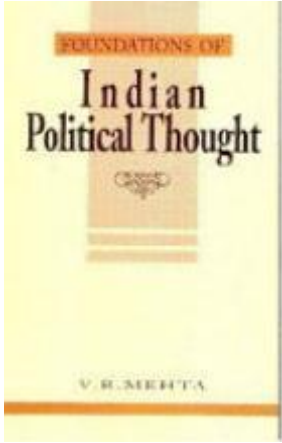
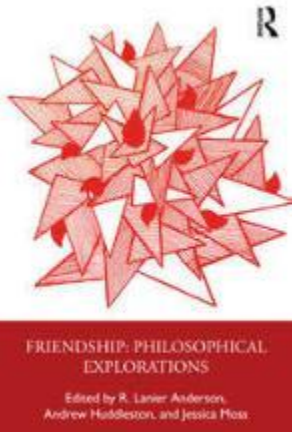
Hindi Cell

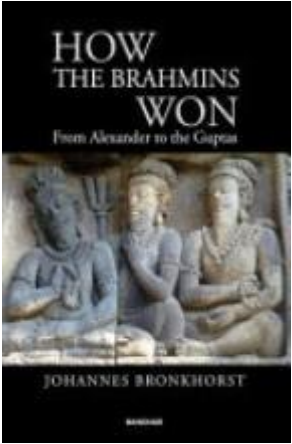
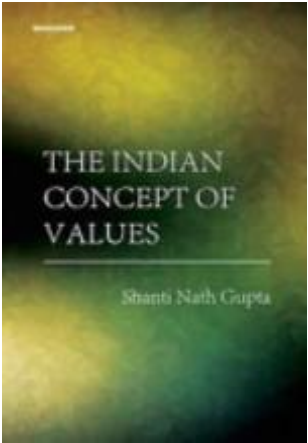
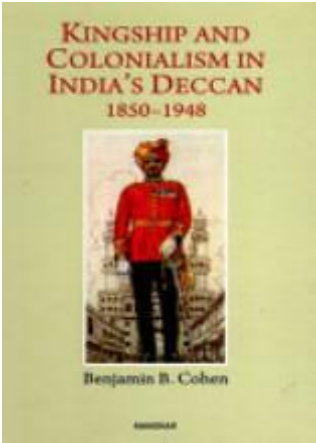
47		Mera Pariwar (मेरा परिवार) by Mahadevi Verma, Delhi: Lokbharti Prakashan, 2008. 95 p. ISBN: 9788180313080 Subject Terms: Compassion; Love for Nature; Humanity; Kindness; Respect for living beings H 82-32 VER-M Barcode: H435; CL Click here for more details.
----	--	--

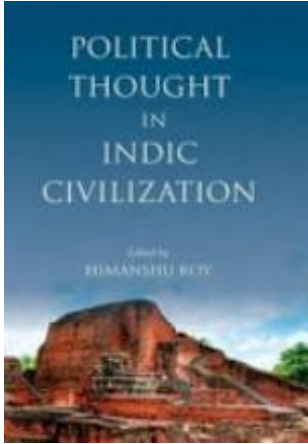
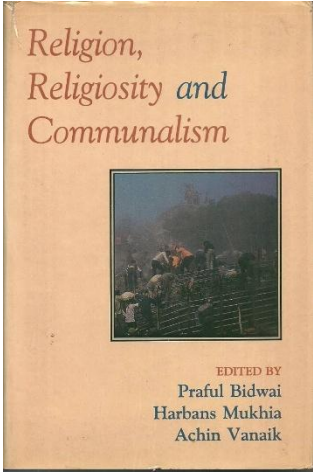
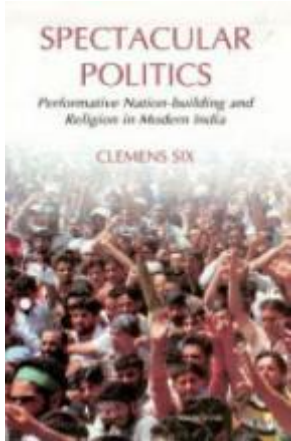
Humanities and Social Sciences

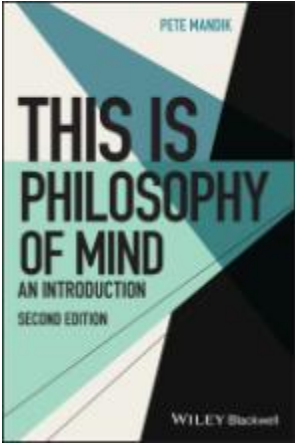
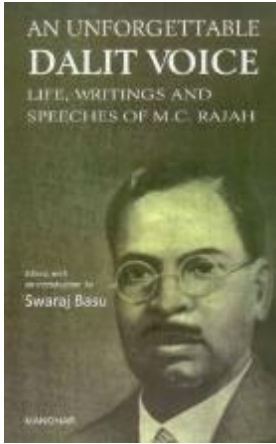
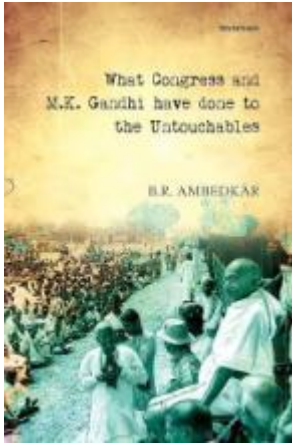
48		Arya Dharm: hindu consciousness in 19th-century Punjab by Kenneth W Jones, New Delhi: Manohar Publishers, 2006. xiv, 343 p. Includes index (p. 337-343) ISBN: 9788173047091 Subject Terms: Hindu identity; Hindu community; Education reform; Arya samaj; Hindu consciousness 23(540.15) JON-A Barcode: 181940; CL Click here for more details.

49		Basics of bioethics by Laura K. Guidry-Grimes and Robert M. Veatch, 5th ed., New York: Routledge, 2026. xix, 367 p. Includes index (p. 358-367) ISBN: 9781032775371 Subject Terms: Animal welfare; Casuistry; Narrative ethics; Genetics; Stem cells 608.1 GUI-B Barcode: 181879; HSS Click here for more details.
50		Beyond caste: identity and power in South Asia, past and present by Sumit Guha, New Delhi: Manohar Publishers, 2024. xviii, 236 p. Includes bibliography and index (p. 215-236) ISBN: 9789360804367 Subject Terms: Territorial power; Political economy; Sociopolitical organization; Caste system; Religion and caste 316.342.3(5-3) GUH-B Barcode: 181941; HSS Click here for more details.
51		Cultural revolt in a colonial society: the non-brahman movement in western India by Gail Omvedt, New Delhi: Manohar publishers, 2026. 331 p. Includes bibliography and index (p.313-331) ISBN: 9788173049279 Subject Terms: Cast structure; Social revolution; Caste system; Brahmanism; Cultural revolt 316.47:94(540.53) OMV-C Barcode: 181942; CL Click here for more details.
		Back to Content

52		Democracy: a reader edited by Ricardo Blaug and John Schwarzmantel, 2nd ed., New Delhi: Manohar publishers, 2026. xxii, 607 p. Includes bibliography and index (p. 596-607) ISBN: 9789360806101 Subject Terms: Citizenship; Political participation; Constitution; Religion; Civil society 321.7 -DEM Barcode: 181876; CL Click here for more details.
53		Foundations of indian political thought: an interpretation (from manu to the present day) by V.R. Mehta, New Delhi: Manohar Publishers, 2025. 306 p. Includes bibliography and index (p. 290-306) ISBN: 9788173041570 Subject Terms: Heroic vision; Modern thought; Synthetic vision; Rabindranath Tagore; Social order 32(540) MEH-F Barcode: 181943; CL Click here for more details.
54		Friendship: philosophical explorations edited By R. Lanier Anderson, Andrew Huddleston, Jessica Moss, New York: Routledge, 2026. xi, 293 p. Includes index (p. 289-293) ISBN: 9781032877976 Subject Terms: Romantic notion; Self-creation; Aesthetic; Truth; Judgement 101.8:392.7 -FRI Barcode: 181970; CL Click here for more details.

55		How the brahmins won: from alexander to the guptas by Johannes Bronkhorst, New Delhi: Manohar Publishers, 2026. xviii, 372 p. Includes references and index (p. 490-572) ISBN: 9789360803544 Subject Terms: Brahmanism; Vedic tradition; Gupta empire; Phonology; Sanskritization 316.344:94(540) BRO-H Barcode: 181944; CL Click here for more details.
56		Indian concept of values by Shanti Nath Gupta, New Delhi: Manohar Publishers, 2024. xi, 197 p. Includes index (p. 193-197) ISBN: 9789360806323 Subject Terms: Indian thought; Satya; Dharma; Moksa; Vasudhaiva kutumbakam 17(540) GUP-I Barcode: 181945; CL Click here for more details.
57		Kingship and colonialism in India's deccan 1850-1948 by Benjamin B. Cohen, New Delhi: Manohar Publishers, 2026. xii, 231 p. Includes bibliography and index (p. 215-231) ISBN: 9788119139316 Subject Terms: Anthropology - Cultural; Asia - India; Asia - Politics and government; History of religion; Ethnic relations 325.3(540) COH-K Barcode: 181946; CL Click here for more details.

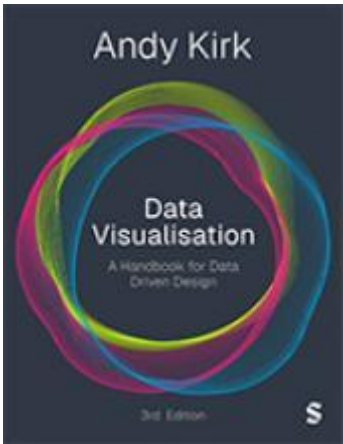
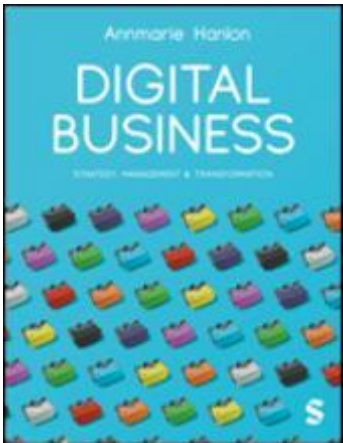
58		Political thought in indic civilization edited by Himanshu Roy, New Delhi: Manohar Publishers, 2023. x, 314 p. Includes index (p. 220-314) ISBN: 9788119139453 Subject Terms: Hinduism; Lingayat movement; Meerabai's bhakti; Social marginals; Pre-colonial India 32:008 (540) -POL Barcode: 181947; CL Click here for more details.
59		Religion, religiosity and communalism edited by Praful Bidwai, Harbans Mukhia and Achin Vanaik, New Delhi: Manohar Publishers & Distributors, 1996. 272 p. ISBN: 9788173041327 Subject Terms: Secularism; Religious devotion; Religious identity; Communal violence; Religious observance 316.34:21/29 -REL Barcode: 181948; CL Click here for more details.
60		Spectacular politics: performative nation- building and religion in modern India by Clemens Six and translated by Rekha Kamath Rajan, New Delhi: Manohar Publishers and Distributors, 2010. 264 p. Includes bibliography and index (p. 231-264) ISBN: 9788173048869 Subject Terms: Nationalism; Political performance; Cultural politics; Public rituals; Political culture 32:2-43 SIX-S Barcode: 181952; CL Click here for more details.
		Back to Content

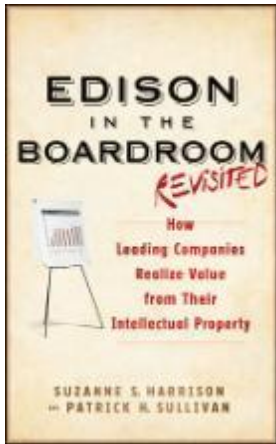
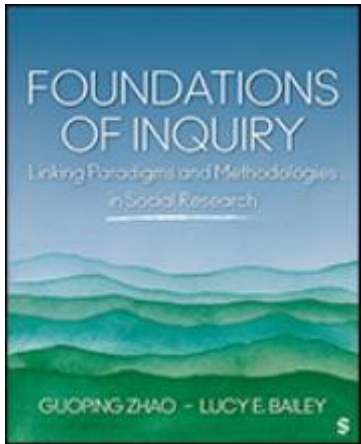
61		This is philosophy of mind: an introduction by Pete Mandik, 2nd ed., Hoboken: John Wiley and Sons, 2022. xiv, 264 p. Includes index (p. 253-264) ISBN: 9781119718888 Subject Terms: Philosophical behaviorism; Consciousness; Substance dualism; Mental Causation; Eliminative materialism 159.91 MAN-T Barcode: 181920; CL Click here for more details.
62		Unforgettable dalit voice:: life, writings and speeches of M.C. Rajah edited by Swaraj Basu, New Delhi: Manohar Publishers and Distributors, 2026. 318 p. ISBN: 9788173049668 Subject Terms: Dalit leader; Dalit movement; Social justice; Human rights; Indian politics 316.342.3 -UNF Barcode: 181949-181950; CL; HSS Click here for more details.
63		What congress and M.K. gandhi have done to the untouchables by B.R. Ambedkar, New Delhi: Manohar publisher's and distributors, 2026. vi, 399 p. Includes index (p. 395-399) ISBN: 9789360803971 Subject Terms: Simon commission; Constitution; British India; Schedule caste; Freedom 316.342.3 AMB-W Barcode: 181951; CL Click here for more details.

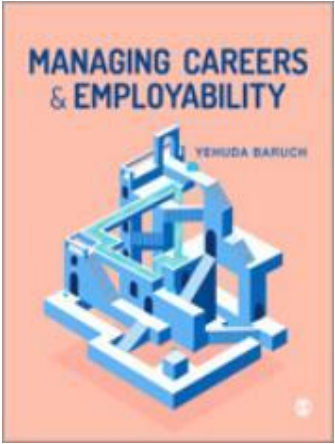
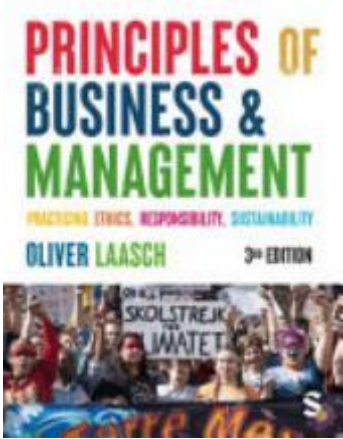
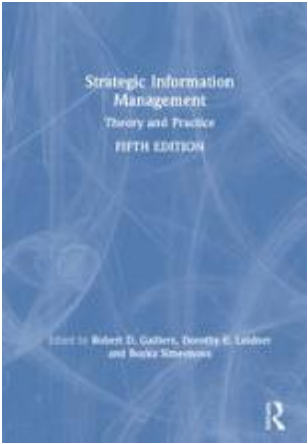
IIT Hospital

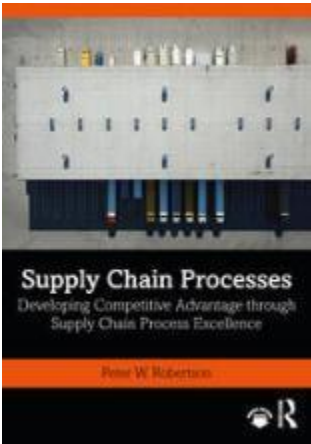
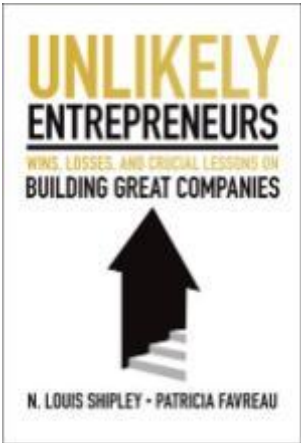
64		Washington manual of medical therapeutics edited by Edward Daniel... (et al.), 38th ed., Philadelphia: Wolters Kluwer, 2026. xiv, 1122 p. Includes index (p. 1097-1122) ISBN: 9781975264055 Subject Terms: Internal medicine; Diagnosis; Cardiology; Gastroenterology; Neurology 615(021) -WAS Barcode: 181992; IITH Click here for more details.
----	---	---

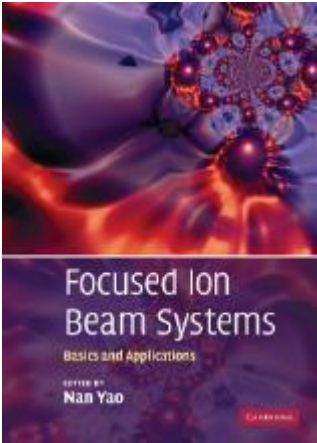
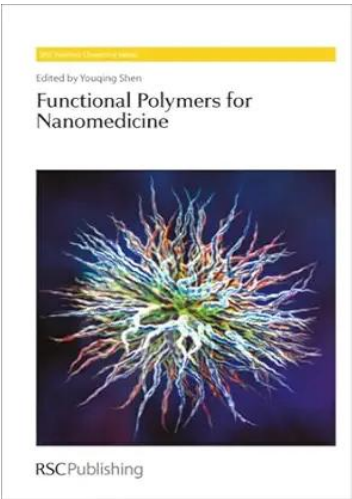
Management Studies

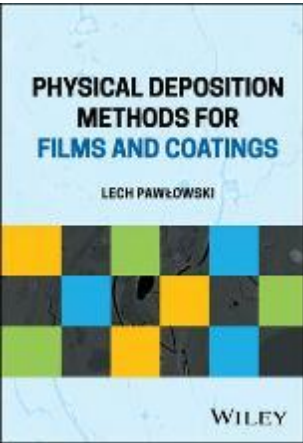
65		Data visualisation: a handbook for data driven design by Andy Kirk, 3rd ed., London: Sage Publishing, 2024. 304 p. Includes references and index (p 293-304) ISBN: 9781529626544 Subject Terms: Hidden thinking; Design thinking; Data-driven design; Graphic communication; Data presentation 681.3:74 KIR-D Barcode: 181924-181925; CL; DMS Click here for more details.
66		Digital business: strategy, management & transformation by Annmarie Hanlon, London: Sage, 2024. ix, 300 p. Includes references and index (p. 271-300) ISBN: 9781529624229 Subject Terms: Business strategy; Digital innovation; Value proposition; Digital leadership; Agile management 658:004 HAN-D Barcode: 181922-181923; CL; DMS Click here for more details.

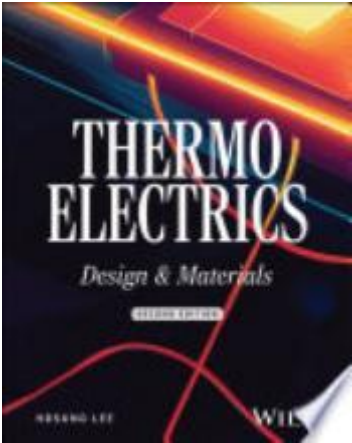
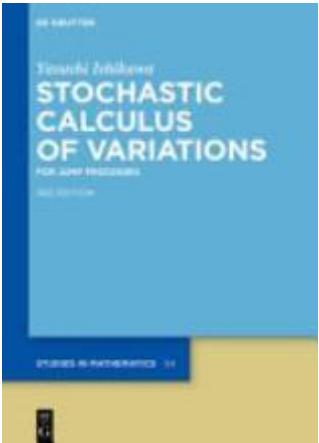
67		Edison in the boardroom revisited: how leading companies realize value from their intellectual property by Suzanne S. Harrison and Patrick H. Sullivan, 2nd ed., Hoboken: Wiley, 2011. xiv, 255 p. Includes index (p. 245-255) ISBN: 9781118004531 Subject Terms: Information management; Capital intellectual; Industrial research; Economic aspects; Innovation strategy 658:347.77 HAR-E Barcode: 181890-181891; CL; DMS Click here for more details.
68		Entrepreneurial marketing: how to develop customer demand by Edwin J. Nijssen, 3rd ed., Abingdon: Routledge, 2022. xiv, 163 p. Includes references and index (p.147-163) ISBN: 9781041311294 Subject Terms: Marketing management; Customer demand; Customer development; Market segmentation; Sales promotion 658.8:334.72 NIJ-E Barcode: 181881-181882; CL; DMS Click here for more details.
69		Foundations of inquiry: linking paradigms and methodologies in social research by Guoping Zhao and Lucy E. Bailey, London: Sage Publishing, 2026. xxviii, 310 p. Includes references and index (p. 271-310) ISBN: 9781071846070 Subject Terms: Postpositivism; Hermeneutics; Poststructuralism; Phenomenology; Feminism 303.4 ZHA-F Barcode: 181926-181927; CL; DMS Click here for more details.

70		Managing careers and employability by Yehuda Baruch, Los Angeles: Sage Publishing, 2022. xxviii, 377 p. Includes index (p. 369-377) ISBN: 9781529751840 Subject Terms: Career planning; Employment; Global career management; Communication; Skills assessment 331.5 BAR-M Barcode: 181928; DMS Click here for more details.
71		Principles of business & management: practicing ethics, responsibility, sustainability by Oliver Laasch, 3rd ed., London: Sage, 2024. xxiv, 942 p. Includes index (p. 931-942) ISBN: 9781529610819 Subject Terms: Folledding; Glocalizing; Supply management; Entrepreneurship; Innovating 658 LAA-P Barcode: 181929-181930; CL; DMS Click here for more details.
72		Strategic information management: theory and practice edited by Robert D. Galliers, Dorothy E. Leidner and Boyka Simeonova, 5th ed., New York: Routledge, 2026. xiv, 479 p. Includes index (p. 472-479) ISBN: 9781041312369 Subject Terms: Business strategy; Enterprise architecture; Business intelligence; Digital ecosystems; E-business 659.2:004.6 -STR Barcode: 181880; CL Click here for more details.

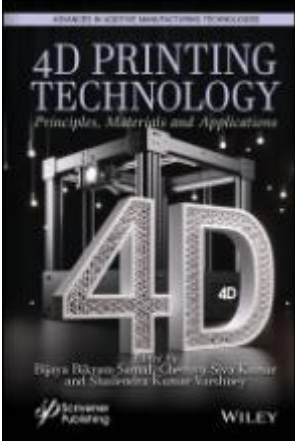
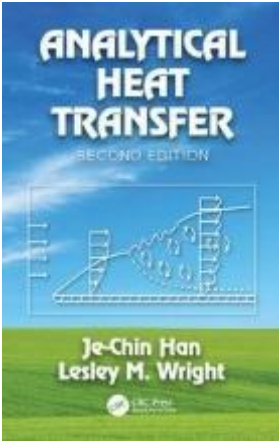
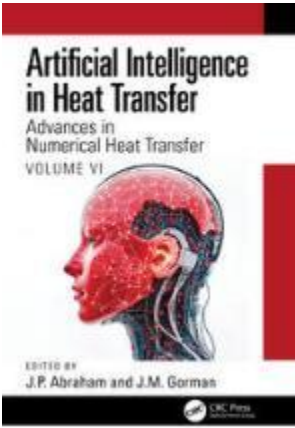
73		Supply chain processes: developing competitive advantage through supply chain process excellence by Peter W. Robertson, Abingdon: Routledge, 2021. xvi, 161 p. Includes index (p. 161) ISBN: 9781041311362 Subject Terms: Supply chain sustainability; Supply disruptions; Volatile business environment; Obstacle and barriers; Execution excellence 658.78 ROB-S Barcode: 181883-181884; CL; DMS Click here for more details.
74		Unlikely entrepreneurs: wins, losses, and crucial lessons on building great companies by N. Louis Shipley and Patricia Favreau, Hoboken: Wiley, 2026. xxi, 212 p. Includes index (p. 201-212) ISBN: 9781394345892 Subject Terms: Market disruptor; Sales methodology; Fundraising; Leadership; Promotional campaigns 658.11:005.21 SHI-U Barcode: 181885-181886; CL; DMS Click here for more details.
Materials Science and Engineering		
75		Ceramic coatings for high-temperature environments: from thermal barrier to environmental barrier applications edited by Amirhossein Pakseresht and Kamalan Kirubakaran Amirtharaj Mosas, Cham: Springer, 2024. xiv, 491 p., Engineering materials. ISBN: 9783031408083 Subject Terms: Aero-industry; Spraying techniques; Cycle behaviour; Coatings; Nanomaterials 666.3.052 -CER Barcode: 181957; CL Click here for more details.

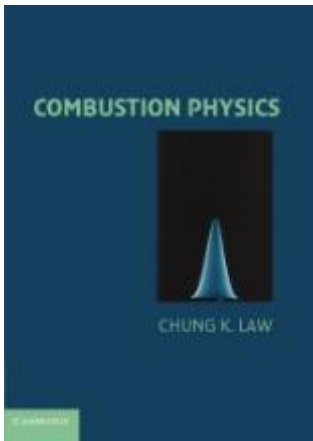
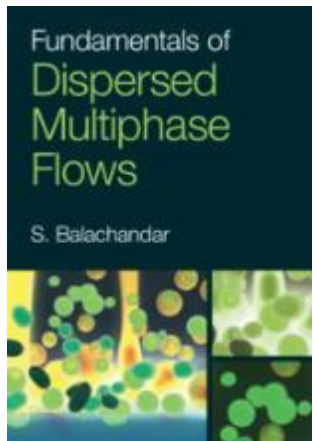
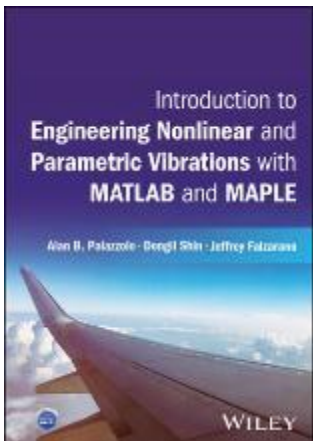
76		Design, fabrication and testing of aeroengine ceramic-matrix composite components by Xiaochong Liu and Longbiao Li, Singapore: Springer, 2024. ix, 94 p., Advanced ceramics and composites. ISBN: 9789819761081 Subject Terms: Chemical vapor; Pyrolysis; Turbine twin; Thermal shock; Combustor liner 620.1:666.3 LIU-D Barcode: 181958; CL Click here for more details.
77		Focused ion beam systems: basics and applications edited by Nan Yao, Cambridge: Cambridge University Press, 2007. xi, 395 p. Includes index (p. 391-395) ISBN: 9780521158596 Subject Terms: Ion beam technology; Sputtering; Microelectronics; Crystallography; Nanofabrication 621.384.663 -FOC Barcode: 181962; CL Click here for more details.
78		Functional polymers for nanomedicine edited by Youqing Shen, Cambridge: Royal Society of Chemistry, 2013. xii, 318 p., RSC polymer chemistry series. Includes index (p. 302-318) ISBN: 9781849736206 Subject Terms: Targeted drug delivery; Reticuloendothelial system; Tumor accumulation; Gene vectors; Cancer chemotherapy 678:620.3 -FUN Barcode: 181977; CL Click here for more details.
		Back to Content

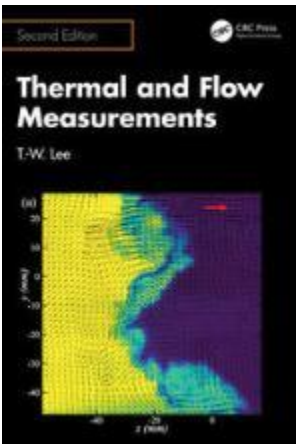
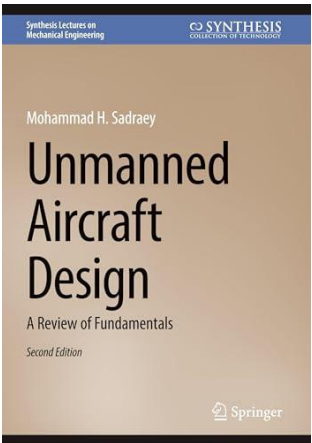
79		Metal matrix composites by Nikhilesh Chawla and Krishan K. Chawla, 2nd ed., New York: Springer, 2013. xvi, 370 p. Includes index (p. 367-370) ISBN: 9781461495475 Subject Terms: Carbon fiber; Mesophase pitch; Cyclic fatigue; Monotonic behavior; Corrosion 620.1:546.3 CHA-M Barcode: 181978; CL Click here for more details.
80		Out-of-equilibrium soft matter: active fluids edited by Christina Kurzthaler, Luigi Gentile and Howard A Stone, London: Royal Society of Chemistry, 2023. xiv, 395 p., Soft matter series. Includes index (p. 391-395) ISBN: 9781839162299 Subject Terms: Fluid mechanics; Soft condensed matter; Active matter; Active hydrodynamics; Cell swimming 538.9 - OUT Barcode: 181897; CL Click here for more details.
81		Physical deposition methods for films and coatings by Lech Pawłowski, Hoboken: Wiley, 2025. xxx, 398 p. Includes index (p. 381-398) ISBN: 9781119713067 Subject Terms: Lithography; Photons patterning; Nucleation; Granular deposits; Adhesion mechanisms 539.216:667.6 PAW-P Barcode: 181975; CL Click here for more details.

82		Piezoelectric polymers and polymer composites for advanced applications edited by Senentxu Lanceros Méndez and Carlos M. Costa, Cham: Springer, 2025. x, 394 p., Engineering materials. ISBN: 9783031887352 Subject Terms: Piezoelectric characterization; Piezoelectric sensors; Electrocaloric polymers; Vinylidene fluoride; Tissue engineering 678:537.221 -PIE Barcode: 181936; CL Click here for more details.
83		Thermoelectrics: design and materials by HoSung Lee, 2nd ed., Hoboken: Wiley, 2025. xv, 515 p. Includes index (p. 507-515) ISBN: 9781394317356 Subject Terms: Seebeck effect; Thermal conductivity; Lead telluride; Phonon engineering; Thomson effect 537.32 LEE-T Barcode: 181898; CL Click here for more details.
Mathematics		
84		Stochastic calculus of variations: for jump processes by Yasushi Ishikawa, 3rd ed., Berlin: De Gruyter, 2023. xiii, 360 p., De Gruyter studies in mathematics. Includes index (p. 359-360) ISBN: 9783110675283 Subject Terms: Perturbations; Poisson space; Markov chain; Polygonal geometry; Wiener space 517.97 ISH-S Barcode: 181887; CL Click here for more details.

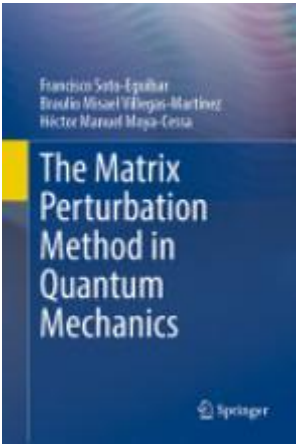
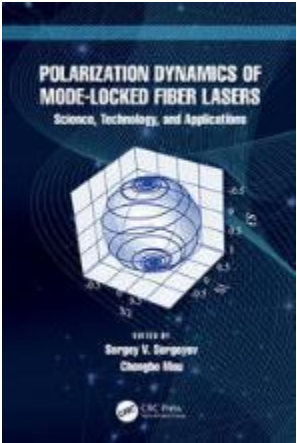
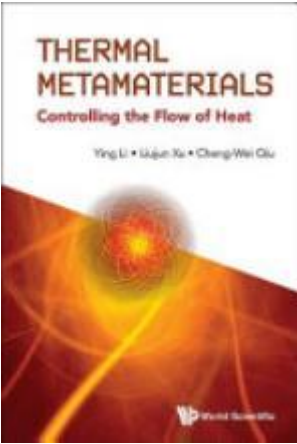
Mechanical Engineering

85		4D printing technology: principles, materials and applications edited by Bijaya Bikram Samal, Cheruvu Siva Kumar and Shailendra Kumar Varshney, Hoboken: Wiley, 2025. xvii, 349 p., Advances in additive manufacturing technologies. Includes index (p. 345-349) ISBN: 9781394212583 Subject Terms: Digital technologies; Iterative design; Morphology; Electrochemical; Piezoelectric materials 621.7:681.62 -PRI Barcode: 181974; CL Click here for more details.
86		Analytical heat transfer by Je-Chin Han and Lesley M. Wright, 2nd ed., Boca Raton: CRC Press, 2022. xix, 575 p. Includes index (p. 567-575) ISBN: 9781041312659 Subject Terms: Heat conduction equation; Stefan-boltzmann law; Bessel function; Reynolds analogy; Cryogenic thermal insulation 536.24 HAN-A Barcode: 181903; ME Click here for more details.
87		Artificial intelligence in heat transfer: advances in numerical heat transfer edited by J.P. Abraham and J. M. Gorman, Boca Raton: CRC Press, 2025. xiv, 248 p. Includes index (p. 245-248) Vol. VI ISBN: 9781032688107 Subject Terms: Thermal management; Machine learning; Neural networks; Finite difference method; Bayesian optimization 536.24:004.8 -ART Barcode: 181965; CL Click here for more details.

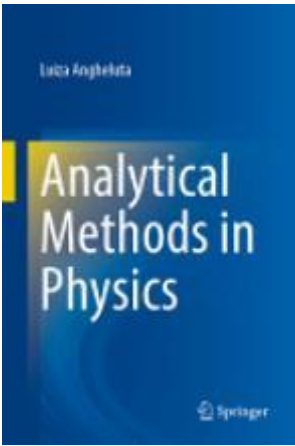
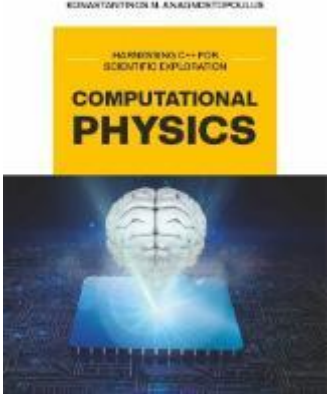
88		Combustion physics by Chung K Law, Cambridge: Cambridge University Press, 2006. xviii, 722 p. Includes references and index (p. 693-722) ISBN: 9780521154215 Subject Terms: Thermodynamics; Chemical equilibrium; Energy conservation; Chemical kinetics; Turbulent combustion 662.612.3 LAW-C Barcode: 181931; CL Click here for more details.
89		Fundamentals of dispersed multiphase flows by S. Balachandar, Cambridge: Cambridge University Press, 2024. xi, 661 p. Includes index (p. 659-661) ISBN: 9781009160469 Subject Terms: Poisson statistics; Polydispersity; Collision model; Pseudo turbulence; Hydrodynamic 532.5 BAL-F Barcode: 181917; CL Click here for more details.
90		Introduction to engineering nonlinear and parametric vibrations with MATLAB and MAPLE by Alan B. Palazzolo, Dongil Shin and Jeffrey Falzarano, Hoboken: Wiley, 2025. xxi, 610 p. Includes index (p. 607-610) ISBN: 9781119319542 Subject Terms: Hamiltonian; Nutshell; Mathieu equation; Poincare plots; Lyapunov exponents 534:004 PAL-I Barcode: 181918-181919; CL Click here for more details.
		Back to Content

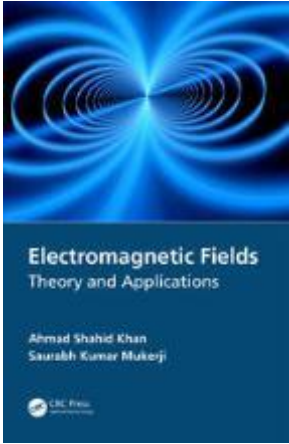
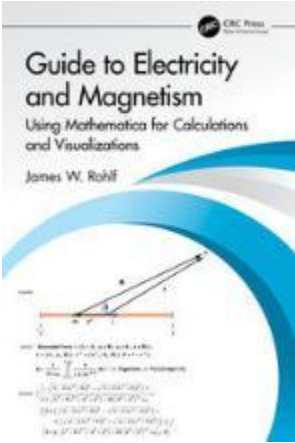
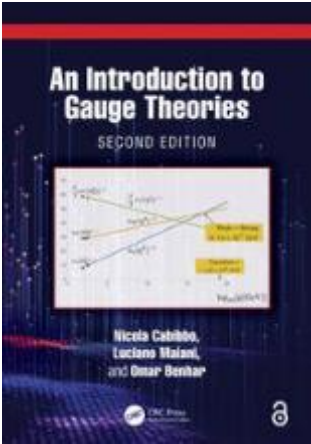
91		Material-oriented cutting processes in precision machining by Guoqing Zhang and Jianpeng Wang, Singapore: Springer, 2025. xvi, 234 p., Springer tracts in mechanical engineering. ISBN: 9789819625031 Subject Terms: Brittle-ductile transition; Polycrystalline materials; Graphitization wear; Lubricant effect; Cutting technology 621.791.94 ZHA-M Barcode: 181937; CL Click here for more details.
92		Thermal and flow measurements by T.W. Lee, 2nd ed., Boca Raton: CRC Press, 2026. x, 376 p. Includes index(p. 371-376) ISBN: 9781041008224 Subject Terms: Fluid mechanics; Measurement systems; Thermocouples; Thermistors; Flow instrumentation 53.082 LEE-T Barcode: 181904; CL Click here for more details.
93		Unmanned aircraft design: a review of fundamentals by Mohammad H. Sadraey, 2nd ed., Cham: Springer, 2025. xiv, 223 p., Synthesis lectures on mechanical engineering. Includes references (p. 221-223) ISBN: 9783031677946 Subject Terms: Robotics; Autopilot; Aerodynamic design; Ground control stations; Airspeed Sensor 629.73 SAD-U Barcode: 181860; CL Click here for more details.

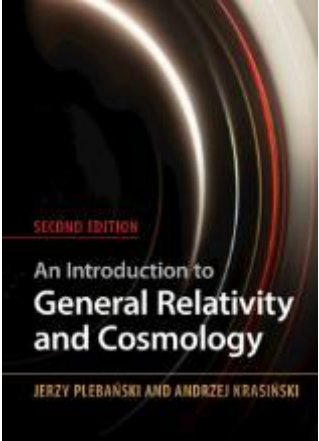
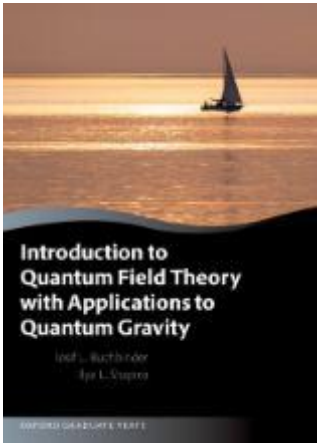
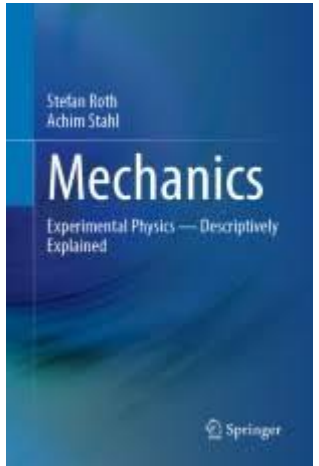
Optics and Photonics

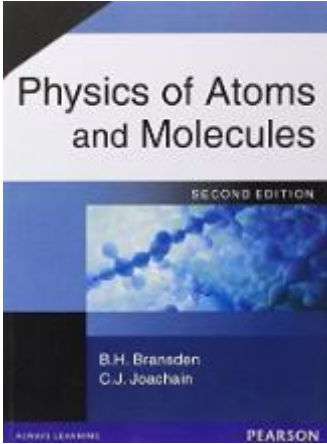
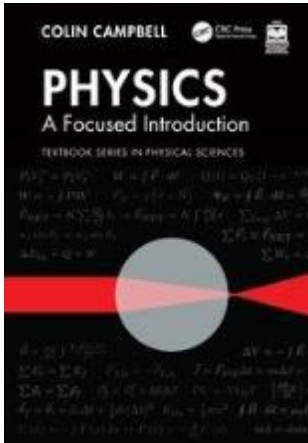
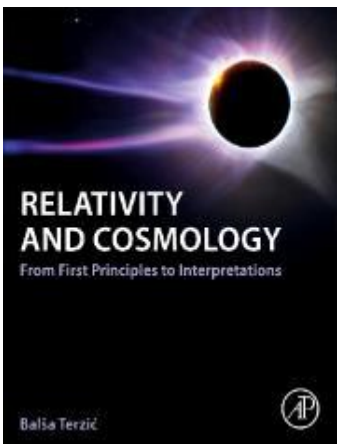
94		Matrix perturbation method in quantum mechanics by Francisco Soto-Eguibar, Braulio Misael Villegas-Martínez and Héctor Manuel Moya-Cessa, Cham: Springer, 2023. xv, 190 p. Includes index (p. 189-190) ISBN: 9783031485459 Subject Terms: Probabilities; Harmonic oscillator; Cubic potential; Binary waveguide; Time-dependence 530.145:512.643 SOT-M Barcode: 181956; CL Click here for more details.
95		Polarization dynamics of mode-locked fiber lasers: science, technology, and applications edited by Sergey V. Sergeyev and Chengbo Mou, Boca Raton: CRC Press, 2023. ix, 226 p. Includes index (p. 223-226) ISBN: 9781032074061 Subject Terms: Vector soliton rain; Lidar applications; Femtosecond laser; Color domain walls; Spectral properties 535.5 -POL Barcode: 181959-181961; TB: OPC Click here for more details.
96		Thermal metamaterials: controlling the flow of heat by Ying Li, Liujun Xu and Cheng-Wei Qiu, Singapore: World Scientific Publishing, 2025. xiv, 305 p. Includes index (p. 304-305) ISBN: 9789811294402 Subject Terms: Thermal cloaking; Transformation thermotics; Camouflaging; Bruggeman method; Scattering of thermal 620.1:536.2 LI-T Barcode: 181976; CL Click here for more details.

Physics

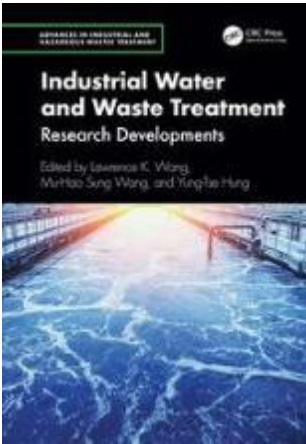
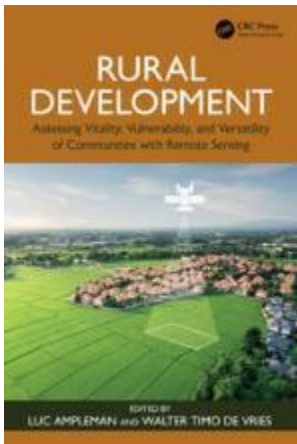
97		Analytical methods in physics by Luiza Angheluta, Cham: Springer, 2025. xiii, 229 p. Includes references (P. 229) ISBN: 9783031770524 Subject Terms: Complex analysis; Variations calculus; Ordinary differential equations; Fourier series; Linear algebra 53:517 ANG-A Barcode: 181893; CL Click here for more details.
98		Classical mechanics by Artemio González López, Boca Raton: CRC Press, 2026. xvi, 377 p. Includes bibliography and index (p. 369-377) ISBN: 9781032987972 Subject Terms: Rigid body motion; Oscillations; Newtonian mechanics; Particle motion; Linear momentum 531 GON-C Barcode: 181894; CL Click here for more details.
99		Computational physics: harnessing C++ for scientific exploration by Konstantinos N. Anagnostopoulos, Bellevue: Silver Dove Press, 2025. vii, 658 p. Includes bibliography (p. 651-658) ISBN: 9788197430572 Subject Terms: Kinematics; Planar motion; Electrostatics; Diffusion equation; Anharmonic oscillator 53:004 ANA-C Barcode: 181916; CL Click here for more details.

100		Electromagnetic fields: theory and applications by Ahmad Shahid Khan and Saurabh Kumar Mukerji, Boca Raton: CRC Press, 2021. xxiv,786 p. Includes index (p. 771-786) ISBN: 9781041312574 Subject Terms: Magnetic circuits; Time-varying fields; Transmission lines; Electromagnetic compatibility; Vector calculus 537.8 KHA-E Barcode: 181895; CL Click here for more details.
101		Guide to electricity and magnetism: using mathematica for calculations and visualizations by James W. Rohlf, Boca Raton: CRC Press, 2024. xiv, 217 p. Includes index (p. 215-217) ISBN: 9781032640853 Subject Terms: Electric potential; Electromagnetic waves; Wave equation; Vector Calculus; Magnetic fields 537 ROH-G Barcode: 181981; CL Click here for more details.
102		Introduction to gauge theories by Nicola Cabibbo, Luciano Maiani and Omar Benhar, 2nd ed., Boca Raton: CRC Press, 2025. xiii, 275 p. Includes bibliography and index (p. 265-275) ISBN: 9781032883229 Subject Terms: Quantum theory; Electromagnetic field; Harmonic oscillator; Scattering processes; Photon propagator 531.718 CAB-I Barcode: 181966; CL Click here for more details.

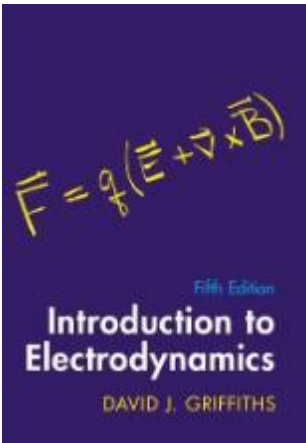
103		Introduction to general relativity and cosmology by Jerzy Plebanski and Andrzej Krasinski, 2nd ed., Cambridge: Cambridge University Press, 2024. xviii, 559 p. Includes references and index (p. 527-559) ISBN: 9781009415620 Subject Terms: Tensors; Gravitation; Quantum cosmology; Riemannian geometry; Einstein - Maxwell equations 530.12:524.8 PLE-I Barcode: 181899; CL Click here for more details.
		Back to Content
104		Introduction to quantum field theory with applications to quantum gravity by Iosif L. Buchbinder and Ilya L. Shapiro, Oxford: Oxford University Press, 2023. x, 524 p., Oxford graduate texts. Includes references and index (p. 503-524) ISBN: 9780198872344 Subject Terms: Scattering matrix; Functional integrals; Perturbation Theory; Renormalization; Quantum gauge theories 530.145:531.5 BUC-I Barcode: 181900; CL Click here for more details.
105		Mechanics: experimental physics - descriptively explained by Stefan Roth and Achim Stahl, Berlin: Springer, 2025. xvi, 668 p. ISBN: 9783662680780 Subject Terms: Newtonian mechanics; Oscillation waves; Work and energy; Friction; Fictitious forces 531/534 ROT-M Barcode: 181859; CL Click here for more details.

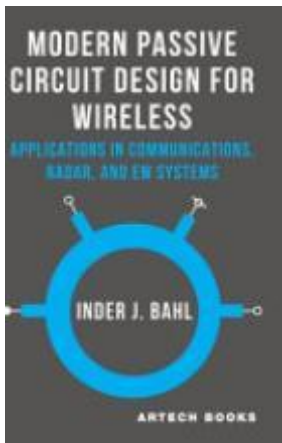
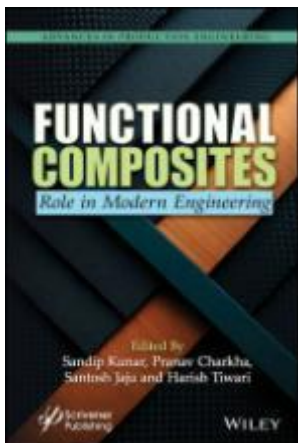
106		Physics of atoms and molecules by B. H. Bransden and C. J. Joachain, 2nd ed., Noida: Pearson India Education, 2026. xiv, 1114 p. Includes references and index (p.1077-1114) ISBN: 9788177582796 Subject Terms: Electrons; Quantum mechanics; Molecular structure; Electronegativity; Atomic photoionisation 539.1 BRA-P Barcode: 181987-181991; CL; TB Click here for more details.
107		Physics: a focused introduction by Colin Campbell, Boca Raton: CRC Press, 2026. viii, 723 p., Textbook series in physical sciences. Includes index (p. 719-723) ISBN: 9781032945880 Subject Terms: Motion graphs; Kinematics; Gravity; Friction; Momentum 53 CAM-P Barcode: 181901; CL Click here for more details.
108		Relativity and cosmology: from first principles to interpretations by Balša Terzić, London: Elsevier, 2025. xv, 239 p. Includes references and index (p. 233-239) ISBN: 9780443235429 Subject Terms: Special relativity; Equivalence principle; General relativity; Curved space-time; Time dilation 530.12:524.8 TER-R Barcode: 181896; CL Click here for more details.

Rural Development and Technology

109		Industrial water and waste treatment: research developments edited by Lawrence K. Wang, Mu-Hao Sung Wang and Yung-Tse Hung, Boca Raton: CRC Press, 2026. xii, 340 p., Advances in industrial and hazardous wastes treatment. Include index (p. 337-340) ISBN: 9781032772967 Subject Terms: Effluent treatment; Wastewater management; Coagulation and flocculation; Sludge treatment; Water pollution control 628.16.628.5 -IND Barcode: 181932; CL Click here for more details.
110		Rural development: assessing vitality, vulnerability, and versatility of communities with remote sensing edited by Luc Ampleman and Walter Timo De Vries, Boca Raton: CRC Press, 2026. xi, 214 p. Includes index (p. 211-214) ISBN: 9781041025931 Subject Terms: Public amenities; Tourism; Landscape; Flood; Housing dynamics 711.3:528.8 -RUR Barcode: 181933; CL Click here for more details.

Sensors Instrumentation and Cyber-physical System Engineering

111		Introduction to electrodynamics by David J. Griffiths, 5th ed., Cambridge: Cambridge University Press, 2024. xix, 602 p. Includes index (p. 591-602) ISBN: 9781009397759 Subject Terms: Vector algebra; Helmholtz theorem; Laplac's equation; Dielectrics; Lorentz force 537.8 GRI-I Barcode: 181908; CL Click here for more details.
-----	---	---

112		Modern passive circuit design for wireless: applications in communications, radar, and EW systems by Inder J. Bahl, Norwood: Artech House, 2026. xxiii, 508 p. Includes index (p. 491-508) ISBN: 9781685690977 Subject Terms: Broadband technique; Coaxial lines; Directional couplers; Power dividers; Filter synthesis 621.382:621.396 BAH-M Barcode: 181964; CL Click here for more details.
Textile and Fibre Engineering		
113		Functional composites: role in modern engineering edited by Sandip Kumar... (et al.), Hoboken: Wiley, 2025. xvii, 249 p., Advances in production and engineering. Includes index (p. 247-249) ISBN: 9781394242009 Subject Terms: Polymer matrix; Pultrusion process; Powder metallurgy; Insulation resistance; Piezoelectric nanocomposites 620.1 -FUN Barcode: 181973; CL Click here for more details.

[Back to Content](#)

*The Collection includes the books added to the Textbook & Book Bank collection, Central Library; and the books procured through students' recommendations in the General Section, Central Library.

Theses Collection

Title	:	Deadline-aware shared memory management in heterogeneous accelerator systems
Researcher	:	Agrawal, Ayushi
Department	:	Amar Nath and Shashi Khosla School of Information Technology, IITD
Year	:	2026
Supervisor	:	Panda, Preeti Ranjan (Prof.) - CSE (Guide)
Physical description	:	xxiii, 189 p.
Subject terms	:	Hardware accelerators; Modern heterogeneous; Internet protocol security; Machine learning; Overhead analysis
Barcode	:	TH8697
Call No.	:	TH 004.33 AGA-D
Title	:	Unveiling valley and topological properties of quantum materials using first-principles simulations
Researcher	:	Ankita
Department	:	Department of Physics, IITD
Year	:	2026
Supervisor	:	Bhattacharya, Saswata (Prof.) - PH (Guide)
Physical description	:	xxiii, 186 p.
Subject terms	:	Valleytronics; Berry curvature; Wavefunction; Ultrasoft pseudopotential; Tight-binding model
Barcode	:	TH8698
Call No.	:	TH 530.145:004.94 ANK-U
Title	:	Physics-based multi-stage modelling of rainfall-induced landslides using geoinformatics and advanced numerical tools
Researcher	:	Avinash
Department	:	Department of Civil and Environmental Engineering, IITD
Year	:	2026
Supervisor	:	Ramana, G. V. (Prof.) - CEE (Guide)
Physical description	:	xxxv, 415 p.
Subject terms	:	Anthropogenic influences; Rainfall-induced landslides; Landslide initiation module; Hydrological modelling; Soil–water interaction
Barcode	:	TH8699
Call No.	:	TH 624.131.537 AVI-P

Title	: Investigation of thunderstorm variability over northwest India: a pragmatic approach utilization multi-decadal observations to high resolution urban modeling
Researcher	: Balakrishnan, Shibin
Department	: Centre for Atmospheric Sciences, IITD
Year	: 2026
Supervisor	: Mohan, Majnu (Prof.) - CAS (Guide); Mohapatra, Mrutyunjay - Ministry of Earth Sciences (Guide)
Physical description	: xxiv, 274 p.
Subject terms	: Disaster mitigation; Urban canopy; Climatology; Planetary boundary layer; Turbulent fluxes
Barcode	: TH8700
Call No.	: TH 551.55(540) BAL-I
Title	: New algebraic concepts and their applications in coding theory
Researcher	: Bhagat, Anuj Kumar
Department	: Department of Mathematics, IITD
Year	: 2026
Supervisor	: Sarma, Ritumoni (Prof.) - MA (Guide)
Physical description	: xviii, 140 p.
Subject terms	: Algebraic coding theory; Linear codes; Vector spaces; Polarization techniques; Linear complementary dual
Barcode	: TH8701
Call No.	: TH 512:004 BHA-N
Title	: Superconducting nitride thin films and their applications in photon detection technologies
Researcher	: Bhargav, Anish
Department	: Centre for Applied Research in Electronics, IITD
Year	: 2026
Supervisor	: Das, Samaresh (Prof.) - CARE (Guide); Rakshit, Rajib Kumar - CSIR-NPL (Guide)
Physical description	: xvii, 155 p.
Subject terms	: Single-photon detectors; Thin-film superconductors; Micro-structural characterization; Superconductivity in ultra-thin films; Film thickness optimization
Barcode	: TH8702
Call No.	: TH 539.23 BHA-S

Title	:	Improving delivery of sustainable rural sanitation by applying systems thinking
Researcher	:	Das, Partha Pratim
Department	:	Centre for Rural Development and Technology, IITD
Year	:	2026
Supervisor	:	Chariar, Vijayaraghavan M (Prof.) - CRDT (Guide)
Physical description	:	xiv, 193 p.
Subject terms	:	Housing typology; Answering structure; Rural homestay; Persona; Sanitation strategies
Barcode	:	TH8703
Call No.	:	TH 628.3 DAS-I
Title	:	Value chain management of panchgavya products
Researcher	:	Dinesh Kumar
Department	:	Centre for Rural Development and Technology, IITD
Year	:	2026
Supervisor	:	Dashora, Kavya (Assoc. Prof.) - CRDT (Guide); Singh, Surya Parkash (Prof.)- MS (Guide)
Physical description	:	xiv, 111 p.
Subject terms	:	Indigenous cows; Sustainability; Panchgavya products; Milk production; Value chain model for non-milking cows
Barcode	:	TH8704
Call No.	:	TH 658.78:636 DIN-V
Title	:	Enhancing rural digital entrepreneurial competencies for improved performance in the Indian context
Researcher	:	Dwivedi, Gayatri
Department	:	Department of Management Studies, IITD
Year	:	2026
Supervisor	:	Sharma, Seema (Prof.) - MS (Guide); Sushil (Prof.) - MS (Guide)
Physical description	:	xv, 268 p.
Subject terms	:	Rural entrepreneurship; Digital skills; Digital transformation; Indian rural economy; Digital empowerment
Barcode	:	TH8705
Call No.	:	TH 658:316.334.55 DWI-E
Title	:	Select studies focusing on sustainability in packaging supply chain
Researcher	:	Gaur, Gulshan Kumar
Department	:	Department of Management of Studies, IITD

Year	: 2026
Supervisor	: Madaan, Jitender (Prof.) - MS (Guide)
Physical description	: xxvii, 264 p.
Subject terms	: Temporal evolution; Fleiss kappa statistics; System dynamic modeling; Critical success factors; Scenario analysis
Barcode	: TH8706
Call No.	: TH 658.78:502 GAU-S
Title	: Dynamic stability of geosynthetic reinforced soil retaining wall for high-speed trains
Researcher	: Gebeyehu, Azmach Lole
Department	: Department of Civil and Environmental Engineering, IITD
Year	: 2026
Supervisor	: Manna, Bappaditya (Prof.) - CE (Guide)
Physical description	: xxix, 234 p.
Subject terms	: Facing wall deflection; Internal stability design; Dynamic vertical stress; Slab track settlement; Differential settlement
Barcode	: TH8707
Call No.	: TH 624.131 GEB-D
Title	: Characterization of biomass pellets
Researcher	: Gupta, Manish
Department	: Department of Mechanical Engineering, IITD
Year	: 2026
Supervisor	: Kohli, Sangeeta (Prof.) - ME (Guide); Ray, Anjan (Prof.) - ME (Guide)
Physical description	: xxi, 184 p.
Subject terms	: Pelletization; Thermogravimetric analysis; Governing equations; Kinetic parameters; Pellet devolatilization
Barcode	: TH8708
Call No.	: TH 620.92 GUP-C
Title	: Depth-resolved assessment of microplastic migration from legacy municipal solid waste dumpsite using high-resolution site characterisation
Researcher	: Haritwal, Deepak Kumar
Department	: Department of Civil and Environmental Engineering, IITD
Year	: 2026
Supervisor	: Datta, Manoj (Prof.) - CEE (Guide); Ramana, G. V. (Prof.) - CEE (Guide)

Physical description	: xxviii, 281 p.
Subject terms	: Municipal solid waste; Landfill mining; Hydraulic profiling tool; Biological degradation in landfills; Macroplastic migration
Barcode	: TH8709
Call No.	: TH 628.4 HAR-D
Title	: Fabrication high-strength 316L stainless steel-based nanocomposites by laser powder bed fusion
Researcher	: Karan, Baibhav
Department	: IIT Delhi and University of Queensland
Year	: 2026
Supervisor	: Zhang, Mingxing - University of Queensland (Guide); Bhowmik, Ayan (Asst. Prof.) - MSE (Guide)
Physical description	: xxix, 207 p.
Subject terms	: Additive manufacturing; Laser powder bed fusion; Nanocomposites; Directed energy deposition; Open circuit potential
Barcode	: TH8710
Call No.	: TH 620.17 KAR-F
Title	: Chepang community and rhino conservation in Nepal: unveiling perspectives on wildlife trade to foster conservation
Researcher	: Krishnani, Vasundhara Hemant
Department	: IIT Delhi and University of Queensland
Year	: 2026
Supervisor	: Saini, Ajay (Prof.) - CRDT (Guide); Ward, Patrick - University of Queensland (Guide); Kark, Salit - University of Queensland (Guide); Karmacharya, Dibesh - University of Queensland (Guide)
Physical description	: xxii, 124 p.
Subject terms	: Illegal wildlife trade; One-horned rhinoceros; Wild conservation; Indigenous community; Chitwan national park
Barcode	: TH8711
Call No.	: TH 502.211(541.35) KRI-C
Title	: Electromagnetohydrodynamic flow through porous media - multiscale approach
Researcher	: Majumdar, Promasree
Department	: Department of Mechanical Engineering, IITD
Year	: 2026
Supervisor	: Dasgupta, Debabrata (Assoc. Prof.) - ME (Guide)
Physical description	: xviii, 157 p.

Subject terms	:	Mathematical modeling; Continuum theory; Lorentz force; Fluid flow; Anisotropy
Barcode	:	TH8712
Call No.	:	TH 532.5 MAJ-E
Title	:	Pre-mixed flame acceleration and inhibition in partially confined geometries
Researcher	:	Mishra, Ayushi
Department	:	Department of Mechanical Engineering, IITD
Year	:	2026
Supervisor	:	Mayank Kumar (Assoc. Prof.) - ME (Guide); Agrawal, Krishnakant (Assoc. Prof.) - ME (Guide)
Physical description	:	xviii, 157 p.
Subject terms	:	Test chamber; Aerosol; Ignition circuit; Vents; Obstacle
Barcode	:	TH8713
Call No.	:	TH 536.46 MIS-P
Title	:	Study on the convolution sums of the divisor functions and related questions
Researcher	:	Misra, Bikram
Department	:	Department of Mathematics, IITD
Year	:	2026
Supervisor	:	Saha, Biswajyoti (Prof.) - MA (Guide)
Physical description	:	xiii, 122 p.
Subject terms	:	Chen's theorem; Bombieri-vinogradov theorem; Selberg's linear sieve; Ingham's work; Triple convolution
Barcode	:	TH8714
Call No.	:	TH 511.3 MIS-S
Title	:	Designing layered halide perovskites for efficient optoelectronics: a computational approach
Researcher	:	Nayak, Pabitra Kumar
Department	:	Department of Chemistry, IITD
Year	:	2026
Supervisor	:	Ghosh, Dibyajyoti (Prof.) - CHY (Guide)
Physical description	:	xii, 262 p.
Subject terms	:	Inorganic layer; Materials building; Hartree approximation; Kohn-sham formalism; Molecular dynamic
Barcode	:	TH8715

Call No.	: TH 535:621.38 NAY-D
Title	: Millet value chain analysis for sustainability
Researcher	: Pandey, Adya
Department	: Department of Mechanical Engineering, IITD
Year	: 2026
Supervisor	: Bolia, Nomes B. (Prof.) - ME (Guide)
Physical description	: xv, 196 p.
Subject terms	: Procurement; Logistic regression; Conjoint analysis; Convergence assessment; Trait matrix
Barcode	: TH8716
Call No.	: TH 658.78:502 PAN-M
Title	: Impact of strategic flexibility and strategic innovation on firm performance
Researcher	: Rana, Arun Singh
Department	: Department of Management of Studies, IITD
Year	: 2026
Supervisor	: Dhir, Sanjay (Prof.) - MS (Guide); Sushil (Emer. Prof.) - MS (Guide)
Physical description	: xxi, 273 p.
Subject terms	: Production innovation; Strategic orientation; Scree plot; Path analysis; Bivariate relationships
Barcode	: TH8717
Call No.	: TH 658:005.21 RAN-I
Title	: Studies on shape-memory and self-healing behavior of dynamically vulcanized thermoplastic polyurethane (TPU)/epoxidized natural rubber (ENR)/Fe ₃ O ₄ based thermoplastic elastomeric blends
Researcher	: S, Aiswarya
Department	: Department of Materials Science and Engineering, IITD
Year	: 2026
Supervisor	: Banerjee, Shib Shankar (Assoc. Prof.) - MSE (Guide)
Physical description	: xxii, 147 p.
Subject terms	: Imine bonds; Ionomeric bonds; Host-guest interaction; Zincdimethacrylate; Oil swelling
Barcode	: TH8718
Call No.	: TH 678.7 AIS-S

Title	:	Control of position sensorless PMBLDC motor drive for solar-pv assisted light electric vehicles
Researcher	:	Saha, Biswajit
Department	:	Department of Electrical Engineering, IITD
Year	:	2026
Supervisor	:	Singh, Bhim (Prof.) - EE (Guide)
Physical description	:	xxiii, 222 p.
Subject terms	:	Sensing techniques; Standstill operation; Motor control; Battery pack rating; Cuk converter
Barcode	:	TH8719
Call No.	:	TH 629.064.5 SAH -C
Title	:	Development of quantitative phase and TIRF microscope for bio-photonics applications
Researcher	:	Saxena, Anuj
Department	:	Centre for Sensors, Instrumentation and Cyber Physical System Engineering, IITD
Year	:	2026
Supervisor	:	Mehta, Dalip Singh (Prof.) - PH (Guide); Dubey, Satish Kumar (Prof.) - SeNSE (Guide); Ahluwalia, Balpreet Singh (Prof.)- University of Norway (Guide)
Physical description	:	243 p.
Subject terms	:	Conventional microscopy; Magnification; Optical resolution; Off-axis interferometry; Calcite crystal
Barcode	:	TH8720
Call No.	:	TH 535.8 SAX-D
Title	:	Cultivation of entrepreneurial mindset in design education
Researcher	:	Shrivastav, Shamit
Department	:	Department of Design, IITD
Year	:	2026
Supervisor	:	Rao, P.V.M. (Prof) - DE (Guide); Vaishnav, Chintan - MIT (Guide)
Physical description	:	xviii, 207 p.
Subject terms	:	Entrepreneurial minded learning; Traits of designers; Unleashing creativity; Reflective thinking; Business Acumen
Barcode	:	TH8721
Call No.	:	TH 7.05:658 SHR-C
Title	:	Thermal analysis and cooling of solar photovoltaic systems to curb their temperature rise-driven performance loss

Researcher	: Kumar, Shubham
Department	: Department of Mechanical Engineering, IITD
Year	: 2026
Supervisor	: Subbarao, P. M. V. (Prof.) - ME (Guide)
Physical description	: xxix, 257 p.
Subject terms	: Thermal management; Heat transfer modelling; Thermal analysis; Geometric model; Governing equation
Barcode	: TH8722
Call No.	: TH 621.383.51 SHU-T
Title	: Design and evaluation of metal organic frameworks for biomedical applications
Researcher	: Singh, Chitrangda
Department	: Department of Chemical Engineering, IITD
Year	: 2026
Supervisor	: Upadhyayula, Sreedevi (Prof.) - CHE (Guide); Mathur, Rashi - INMAS, New Delhi (Guide)
Physical description	: xxvi, 259 p.
Subject terms	: Powder x-ray diffraction; Box-Behnken design; Cytarabine; Planewaves; Cytocompatibility evaluation
Barcode	: TH8723
Call No.	: TH 615.4 SIN-D
Title	: Wave propagation and damage evolution in heterogeneous layered media under impact loading
Researcher	: Singh, Satyendra Pratap
Department	: Department of Applied Mechanics, IITD
Year	: 2026
Supervisor	: Mahajan, Puneet (Prof.) - AM (Guide); Singh, Harpreet (Assoc. Prof.) - IIT, Goa (Guide)
Physical description	: xxviii, 208 p.
Subject terms	: Split-hopkinson pressure; Cohesive zone model; Photonic doppler; Wave mechanics; Governing equations
Barcode	: TH8724
Call No.	: TH 539.4:620.1 SIN-W
Title	: Multi-level emotion-focused coping strategies for entrepreneurs' mental well-being and entrepreneurial performance
Researcher	: Raghunatha T
Department	: Department of Management Studies, IITD

Year	:	2026
Supervisor	:	Dhir, Sanjay (Prof.) - MS (Guide); Chikhale, Mayur M. (Assoc. Prof.) - UPES, Dehradun (Guide)
Physical description	:	x, 136 p.
Subject terms	:	Entrepreneurial stressors; Data saturation; Incubators; Coding and theme; Social domain
Barcode	:	TH8725
Call No.	:	TH 658:159.944 RAG-M
Title	:	Climate vulnerability reduction for small and marginal farmers in Uttarakhand, India
Researcher	:	Thein, Kyawt Yin Min
Department	:	Centre for Rural Development and Technology, IITD
Year	:	2026
Supervisor	:	Chariar, Vijayaraghavan M (Prof.) - CRDT (Guide); Kumar, Vivek (Prof.) - CRDT (Guide)
Physical description	:	xx, 176 p.
Subject terms	:	Climate change; Garrett ranking technique; Natural hazard; Village tracts; High-yielding
Barcode	:	TH8726
Call No.	:	TH 63:551.583 THE-C
Title	:	Multi-level framework for intelligent control of dynamical systems with unknown physics
Researcher	:	Tripura, Tapas
Department	:	Department of Applied Mechanics, IITD
Year	:	2026
Supervisor	:	Chakraborty, Souvik (Assoc. Prof.) - AM (Guide)
Physical description	:	xxiv, 280 p.
Subject terms	:	Bellman equations; Deep reinforcement; Harmonic oscillator; Penning trap; Noise sensitivity
Barcode	:	TH8727
Call No.	:	681.51:004.8 TRI-M
Title	:	Mapping double duty actions to target the dual burden of malnutrition
Researcher	:	Tyagi, Namrata
Department	:	Centre for Rural Development and Technology, IITD
Year	:	2026
Supervisor	:	Chariar, Vijayaraghavan M (Prof.) - CRDT (Guide)

Physical description	: xxviii, 277 p.
Subject terms	: Anthropometrics; Nutrition databases; Risk factors; Dietary diversity; Health survey
Barcode	: TH8728
Call No.	: TH 616-056.25 TYA-M
Title	: Development and study of liquid crystal composites with organic and inorganic functional dopants for electro-optic and sensing applications
Researcher	: Verma, Deepak
Department	: Department of Physics, IITD
Year	: 2026
Supervisor	: Sinha, Alok (Prof.) - PH (Guide)
Physical description	: xxxiv, 177 p.
Subject terms	: Optical anisotropy; Electro-optic materials; Polymer nanoparticles; Photoluminescence spectroscopy; Laser scanning microscopy
Barcode	: TH8729
Call No.	: TH 681.586:532.783 VER-D
Title	: Investigation of passive building conditioning methods for enhancing building energy performance
Researcher	: Verma, Rahul
Department	: Department of Energy Science and Engineering, IITD
Year	: 2026
Supervisor	: Rakshit, Dibakar (Prof.) - ESE (Guide)
Physical description	: xxv, 207 p.
Subject terms	: Indoor air quality; Climate characteristics; Synergetic analysis; Pareto optimal solutions; Life cycle assessment
Barcode	: TH8730
Call No.	: TH 697:620.9 VER-I
Title	: Studies on actinobacteria-derived novel antimicrobials and developing advanced strategies to combat community/hospital-acquired antimicrobial resistance in MDR pathogens
Researcher	: Zaidi, Saniya
Department	: Department of Chemistry, IITD
Year	: 2026
Supervisor	: Khare, Sunil Kumar (Prof.) - CHY (Guide); Sood, Seema (Prof.) - AIIMS, Delhi (Guide)
Physical description	: xxxviii, 323 p.

Subject terms	:	Biofilm formation; Horizontal Gene Transfer; Antibiotic discovery; Biotechnological relevance; Photodynamic therapy
Barcode	:	TH8731
Call No.	:	TH 579.61:616-092 ZAI-S
Title	:	Machine learning-driven modeling and optimization of biopharmaceutical processes
Researcher	:	Alam, Md Nasre
Department	:	Department of Chemical Engineering, IITD
Year	:	2026
Supervisor	:	Kodamana, Hariprasad (Assoc. Prof.) - CHE and SAI (Guide); Rathore, Anurag S. (Prof.) - CHE and SAI (Guide)
Physical description	:	xxi, 209 p.
Subject terms	:	Deep learning; Bayesian optimization; Monoclonal antibody; Microbial fermentation; Escherichia coli
Barcode	:	TH8732
Call No.	:	TH 661.12:004.85 ALA-M
Title	:	Topology and control of high-resolution multilevel inverter for renewable energy application
Researcher	:	Ansari, Mohsin Karim
Department	:	Department of Energy Science and Engineering, IITD
Year	:	2026
Supervisor	:	Chattopadhyay, Sumit Kumar (Prof.) - ESE (Guide)
Physical description	:	xxiv, 253 p.
Subject terms	:	Active power filter; Asymmetric inverters; Hexagonal decomposition; Nearest space vector modulation; Solar PV inverters
Barcode	:	TH8733
Call No.	:	TH 502:621.314.57 ANS-T
Title	:	Understanding the metabolic control of gene transcription in metabolic dysfunction-associated fatty liver disease
Researcher	:	Bhattacharya, Debashruti
Department	:	Kusuma School of Biological Sciences, IITD
Year	:	2026
Supervisor	:	Minocha, Shilpi (Prof.) - SBS (Guide)
Physical description	:	v.p.
Subject terms	:	Hepatic steatosis; Transcriptional regulation; Metabolic regulation; Lipid metabolism; Hepatic metabolism
Barcode	:	TH8734

Call No.	: TH 616.36:577 BHA-U
Title	: Adaptive and interpretable neural network framework for process modelling
Researcher	: Deepak Kumar
Department	: Department of Chemical Engineering, IITD
Year	: 2026
Supervisor	: Kodamana, Hariprasad (Assoc. Prof.) - CHE and SAI (Guide); Ramteke, Manojkumar (Prof.) - CHE and SAI (Guide)
Physical description	: xxviii, 220 p.
Subject terms	: Machine learning; Fault detection; Carbon capture; Thermophysical properties; Symbolic regression
Barcode	: TH8735
Call No.	: TH 66.011:004.032.26 DEE-A
Title	: Study of airline itinerary choice behavior in inter-city air travel
Researcher	: Farooq, Mustansir
Department	: Department of Civil and Environmental Engineering, IITD
Year	: 2026
Supervisor	: Manoj M. (Assoc. Prof.) - CEE (Guide); Rao, K. Ramachandra (Prof.) - CEE (Guide)
Physical description	: xxiv, 185 p.
Subject terms	: Connection time; Ancillary services; Pooling in airline; Air travel behavior; Airline service quality
Barcode	: TH8736
Call No.	: TH 656.7 FAR-S
Title	: Design and development of nucleic acid-based detection system for prostate cancer diagnosis
Researcher	: Kar, Debashree
Department	: Department of Biological Engineering and Biotechnology, IITD
Year	: 2026
Supervisor	: Mishra, Prashant (Prof.) - BEB (Guide)
Physical description	: xxiv, 229 p.
Subject terms	: Biomarkers; Chromatin remodeling; Exosomes; Biosensors; Histone modification
Barcode	: TH8737
Call No.	: TH 616-006:616-07 KAR-D

Title	: Utilization of flockhouse virus-like particles for therapeutic purposes
Researcher	: Khursheed, Maryam
Department	: Kusuma School of Biological Sciences, IITD
Year	: 2026
Supervisor	: Banerjee, Manidipa (Prof.) - SBS (Guide)
Physical description	: xiv, 106 p.
Subject terms	: Hydrophobic drugs; Cancer tumors; Moieties; Doxorubicin; Fluorescein isothiocyanate
Barcode	: TH8738
Call No.	: TH 615:57.083 KHU-U
Title	: Dissecting molecular biology through single molecule sequencing
Researcher	: Mahar, Nirmal Singh
Department	: Department of Biochemical Engineering and Biotechnology, IITD
Year	: 2026
Supervisor	: Gupta, Ishaan (Assoc. Prof.) - BEB (Guide)
Physical description	: xv, 205 p.
Subject terms	: Nanopore sequencing; Genomes; Metagenome; Phylogenetic tree; Volcano plots
Barcode	: TH8739
Call No.	: TH 577.2 MAH-D
Title	: Synthesis and characterizations of plasmonic nanostructures for molecular sensing by surface enhanced Raman scattering (SERS)
Researcher	: Om Prakash
Department	: Department of Physics, IITD
Year	: 2026
Supervisor	: Ghosh, Santanu (Prof.) - PH (Guide); Singh, Udai Bhan (Asst. Prof.) - PH (Guide)
Physical description	: xxiii, 182 p.
Subject terms	: Raman spectroscopy; High-energy ion irradiation; X-ray diffraction; Atomic force microscopy; Scanning electron microscopy
Barcode	: TH8740
Call No.	: TH 544.174.5 PRA-S
Title	: Molecular dynamics simulation of strongly coupled Yukawa systems
Researcher	: Priya
Department	: Department of Physics, IITD

Year	: 2026
Supervisor	: Malik, Hitendra Kumar (Prof.) - PH (Guide)
Physical description	: xviii, 138 p.
Subject terms	: Dust temperature; Coulomb coupling; Damping parameter; Percolation threshold; Chaotic dynamics
Barcode	: TH8741
Call No.	: TH 533.9:004.94 PRI-M
Title	: Fiscal rules and their macroeconomics consequences
Researcher	: Sardana, Yashika
Department	: Department of Management Studies, IITD
Year	: 2026
Supervisor	: Dubey, Amlendu (Prof.) - MS (Guide)
Physical description	: xxii, 122 p.
Subject terms	: Economic growth; Fiscal balances; Inflation; Autoregressive; Dynamic panel data model
Barcode	: TH8742
Call No.	: TH 330.101.541 SAR-F
Title	: Exploring modular multilevel converter for renewable energy applications
Researcher	: Wanjari, Nikilesh Vinayak
Department	: Department of Energy Science and Engineering, IITD
Year	: 2026
Supervisor	: Chattopadhyay, Sumit K (Assoc. Prof.) - ESE (Guide)
Physical description	: xvii, 183 p.
Subject terms	: Grid-connected inverters; Electric vehicle charging station; Photovoltaic inverter; Modular dc-dc converter; Sensor circuit
Barcode	: TH8743
Call No.	: TH 621.314.5:502 WAN-E
Title	: Conceptualisation and experimental investigation of an innovative foundation system for lightly loaded buildings on expansive soils
Researcher	: Babu, Abitha
Department	: IIT Delhi and University of Queensland
Year	: 2026
Supervisor	: Ayothiraman, Ramanathan (Prof.) - CEE (Guide); Scheuermann, Alexander - University of Queensland (Guide); Vangla, Prashanth (Assoc. Prof.) - CEE (Guide)

Physical description	: xxii, 149 p.
Subject terms	: Expansive soil; Pile foundation; Swelling; Soil upheave; Pile uplift
Barcode	: TH8744
Call No.	: TH 624.15:69 BAB-C
Title	: Structural, electronic, and magnetic properties of co-based full Heusler alloys: first-principles study
Researcher	: Amar Kumar
Department	: Department of Physics, IITD
Year	: 2026
Supervisor	: Chaudhary, Sujeet (Prof.) - PH (Guide); Chandra, Sharat (Prof.) - PH (Guide)
Physical description	: xxvi, 215 p
Subject terms	: Spintronic memory materials; Magnetic anisotropy; Anomalous hall effect; Tight-binding method; Lattice-distortion
Barcode	: TH8745
Call No.	: TH 669-1 AMA-S
Title	: 2D nanomaterials-based chemiresistive sensors for VOC mixture analysis
Researcher	: Gaur, Snehranj
Department	: Department of Chemistry, IITD
Year	: 2026
Supervisor	: Gupta, Ritu (Assoc. Prof.) - CHE (Guide)
Physical description	: xxii, 148 p.
Subject terms	: Gas separation strategies; Transmission electron microscopy; X-ray diffraction; Thermal evaporation; Photolithography
Barcode	: TH8746
Call No.	: TH 620.3:681.586 GAU-N
Title	: Investigation of security vulnerabilities in emerging compute architectures
Researcher	: Goswami, Bhanprakash
Department	: Department of Electrical Engineering, IITD
Year	: 2026
Supervisor	: Suri, Manan (Prof.) - EE (Guide)
Physical description	: xxi, 111 p.
Subject terms	: Microarchitectural; Hardware trojan; Neuromorphic side-channels; Model cloning; Threat model

Barcode	: TH8747
Call No.	: TH 004.2 GOS-I
Title	: Development of green integrated technology for critical material recovery from end-of-life lithium-ion batteries
Researcher	: Gupta, Shally
Department	: IIT Delhi and University of Queensland
Year	: 2026
Supervisor	: Pant, Kamal Kishore (Prof.) - CHE (Guide); Corder, Glen - University of Queensland (Guide); Verma, Anil (Prof.) - CHE (Guide)
Physical description	: xxiii, 211 p.
Subject terms	: Waste recycling; Hydrometallurgy; Cathode active material; Spent graphite; Green solvents
Barcode	: TH8748
Call No.	: TH 621.35 GUP-D
Title	: Stakeholder integration in construction megaprojects in India: towards a comprehensive framework using a mixed methods approach
Researcher	: Halder, Aritra
Department	: Department of Civil and Environmental Engineering, IITD
Year	: 2026
Supervisor	: Bishnoi, Shashank (Prof.) - CEE (Guide)
Physical description	: xxvii, 507 p.
Subject terms	: Stakeholder integration; Cross-functional integration; Citizenship behavior; Issue management; Key performance indicators
Barcode	: TH8749
Call No.	: TH 69:658(540) HAL-S
Title	: Fault diagnosis of gears used in wind turbine powertrain
Researcher	: Pradeep, Hridin
Department	: Department of Mechanical Engineering, IITD
Year	: 2026
Supervisor	: Darpe, Ashish K (Prof.) - ME (Guide)
Physical description	: xxvi, 271 p.
Subject terms	: Gear specification; Torque responses; Cracked tooth; Crest factor; Wavelet transform
Barcode	: TH8750
Call No.	: TH 621.311.245 PRA-F

Title	: Role of emerging technologies in dealing with supply chain disruptions
Researcher	: Mishra, Smriti
Department	: Department of Management Studies, IITD
Year	: 2026
Supervisor	: Dwivedi, Gourav (Assoc. Prof.) - MS (Guide)
Physical description	: xxix, 290 p.
Subject terms	: Supply chain resilience; Simulation; Augmented reality; Threat-rigidity; Sustainability
Barcode	: TH8751
Call No.	: TH 658.78:004 MIS-R
Title	: Modeling, assessment and control of power systems in presence of stochasticity
Researcher	: Mushtaq, Hafsah
Department	: Department of Electrical Engineering, IITD
Year	: 2026
Supervisor	: Senroy, Nilanjan (Prof.) - EE (Guide)
Physical description	: xviii, 115 p.
Subject terms	: Double fed induction generator; Linear quadratic control; Random variable; Stochastic calculus; Trajectory-sensitivity analysis
Barcode	: TH8752
Call No.	: TH 621.311 MUS-M
Title	: Supply chain analysis for sustainable products
Researcher	: Prashant Kumar
Department	: Department of Mechanical Engineering, IITD
Year	: 2026
Supervisor	: Bolia, Nimesh B. (Prof.) - ME (Guide)
Physical description	: xiv, 258 p.
Subject terms	: Jaggery; Consumer behavior; Bamboo based analysis; Informal sector; Entrepreneurs
Barcode	: TH8753
Call No.	: TH 658.78:502 PRA-S
Title	: Deep learning and physics-based framework for multi-scale landslide monitoring, susceptibility mapping, and early warning
Researcher	: Sharma, Nirdesh Kumar
Department	: Department of Civil and Environmental Engineering, IITD

Year	: 2026
Supervisor	: Saharia, Manabendra (Assoc. Prof.) - CEE (Guide)
Physical description	: xvii, 105 p.
Subject terms	: Cloud computing; Machine learning; Geographic information systems; Hydrological-geotechnical model; Digital elevation model
Barcode	: TH8754
Call No.	: TH 624.131.53:004.85 SHA-D
Title	: Exploratory studies on impact of Gayatri mantra sadhana on psychological well being parameters
Researcher	: Sharms, Nitesh
Department	: National Resource Center for Value Education in Engineering, IITD
Year	: 2026
Supervisor	: Garg, Rahul (Prof.) - CSE (Guide); Jyoti Kumar (Prof.) - DD (Guide)
Physical description	: 214 p.
Subject terms	: Spiritual Well-Being;; Mantra Meditation; Spiritual well-being;; Mental wellbeing; Life satisfaction
Barcode	: TH8755
Call No.	: TH 159.94:26-5 SHA-E
Title	: Study of the sanitation entrepreneurship ecosystem in India
Researcher	: Shivani
Department	: Centre of Rural Development and Technology, IITD
Year	: 2026
Supervisor	: Chariar, Vijayaraghavan M (Prof.) - CRDT (Guide)
Physical description	: xvii, 275 p.
Subject terms	: Insufficient sanitation; Business sustainability; Reachability matrix; Level partitioning; Circular economy
Barcode	: TH8756
Call No.	: TH 628.3:658 SHI-S
Title	: Cytoskeleton biology in normal and pathological megakaryopoiesis
Researcher	: Shrivastva, Saurabh
Department	: Kusuma School of Biological Sciences, IITD
Year	: 2026
Supervisor	: Roy, Anita (Assoc. Prof.) - SBS (Guide)
Physical description	: xiv, 138 p.

Subject terms	:	Non-muscle myosin; receptor traffic; Immunofluorescence; Flow cytometry; Actomyosin network
Barcode	:	TH8757
Call No.	:	TH 576:616.15 SHR-C
Title	:	Understanding human-flood interactions: sociohydrological insights on flood impacts and levee effect
Researcher	:	Singh, Apoorva
Department	:	Department of Civil and Environmental Engineering
Year	:	2026
Supervisor	:	Dhanya, C.T. (Prof.) - CEE (Guide)
Physical description	:	xviii, 118 p.
Subject terms	:	Terrain analysis; Bayesian network; Spatial heterogeneity; Socio-demographic; Hotspot identification
Barcode	:	TH8758
Call No.	:	TH 627.51 SIN-U
Title	:	Molecular dynamics simulation studies of sodium ion based electrolytes for next generation battery devices
Researcher	:	Singh, Navneet
Department	:	Department of Chemistry, IITD
Year	:	2026
Supervisor	:	Kashyap, Hemant K. (Prof.) - CHY (Guide)
Physical description	:	xxxvi, 191 p.
Subject terms	:	Aqueous electrolytes; Berendsen thermostat; Translation mobility; Tetrahedral order parameter; Parrinello-rahman
Barcode	:	TH8759
Call No.	:	TH 621.352:004.94 SIN-M

[Back to Content](#)