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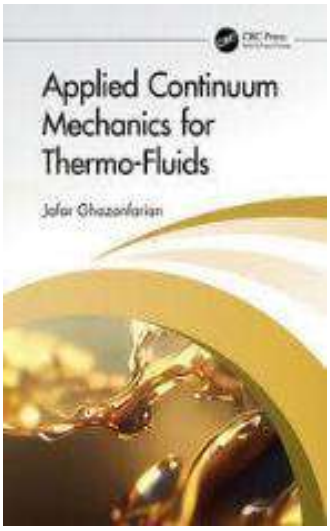
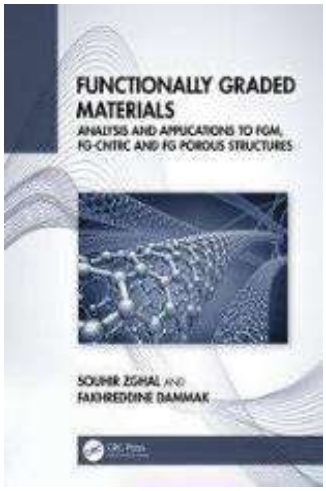
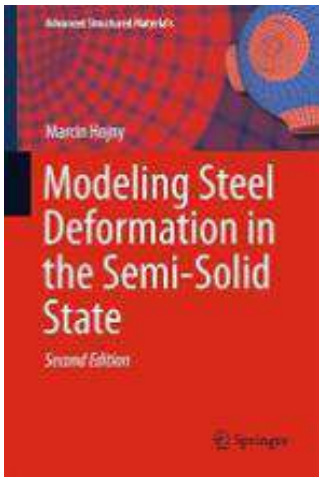
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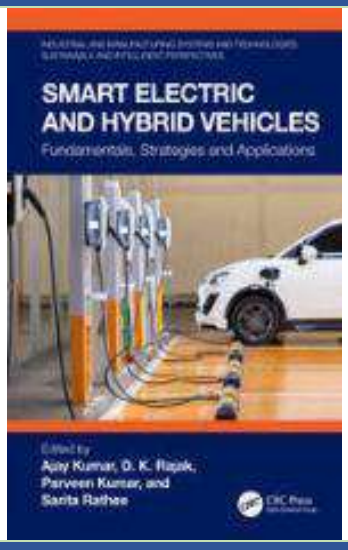
Applied Mechanics

1		Applied continuum mechanics for thermo-fluids by Jafar Ghazanfarian**,** Boca Raton**:** CRC Press**,** 2024**.** xiii, 231 p. Includes bibliography and index (p. 211-231) ISBN: 9781032719382 Subject Terms: Vector algebra; Newtonian and non-Newtonian fluids; Navier-stokes equations; Heat and mass transfer; Vorticity equation
		532:536.7 GHA-A
		Barcode: 180756; CL
		Click here for more details.
2		Functionally graded materials: analysis and applications to FGM, FG-CNTRC and FG porous structures by Souhir Zghal and Fakhreddine Dammak**,** Boca Raton**:** CRC Press**,** 2025**.** xv, 411 p. Includes refrence and index (p. 395-411) ISBN: 9781032767833 Subject Terms: Kinematic models; FGM structures; Thermal analysis; vibration analysis; FG porous structures
		620.1 ZGH-F
		Barcode: 180728-180729; CL; AM
		Click here for more details.
3		Modeling steel deformation in the semi-solid state by Marcin Hojny**,** 2nd ed., Cham**:** Springer**,** 2018**.** xv, 302 p. **-**Advanced structured materials**.** ISBN: 9783319679754 Subject Terms: Resistance heating model; DEFFEM package; Thermal process map; Microstructure and macrostructure; Heating-melting-cooling process
		669.18 HOJ-M
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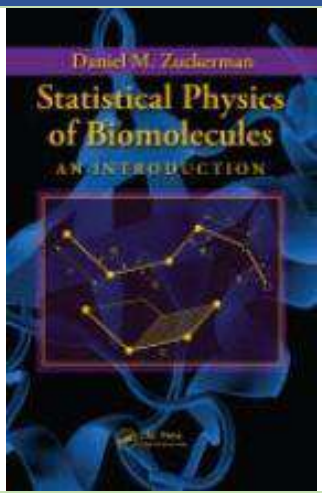
Atmospheric Sciences

4		Atmospheric science: an introductory survey by John M. Wallace and Peter V. Hobbs**,** 2nd ed., Burlington**:** Academic Press**,** 2006**.** xvi, 483 p. **-**International geophysics series**.** Includes index (p. 471-483) ISBN: 9780127329512 Subject Terms: Atmospheric chemistry; Atmospheric physics; Earth and environmental sciences; Atmospheric thermodynamics; Weather systems 551.51 WAL-A Barcode: 180676; CL **Click here for more details.**

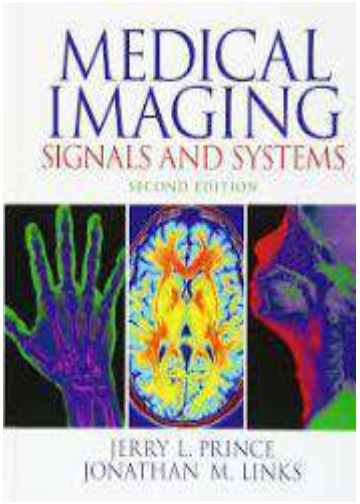
Automotive Research and Tribology

5		Smart electric and hybrid vehicles: fundamentals, strategies and applications edited by Ajay Kumar... [et al.]**.,** Boca Raton**:** CRC Press**,** 2025**.** xvii, 219p. **-** Industrial and manufacturing systems and technologies: sustainable and intelligent perspectives**.** Includes index (p. 214-219) ISBN: 9781032600369 Subject Terms: Technologies emissions; Rechargeable batteries; Taguchi methodology; Electronic waste recycling; AI in automobiles 629.064.5 -SMA Barcode: 180734; CL **Click here for more details.**

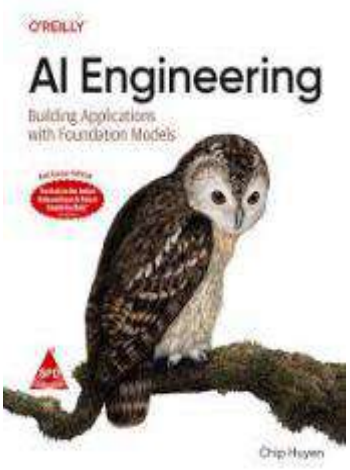
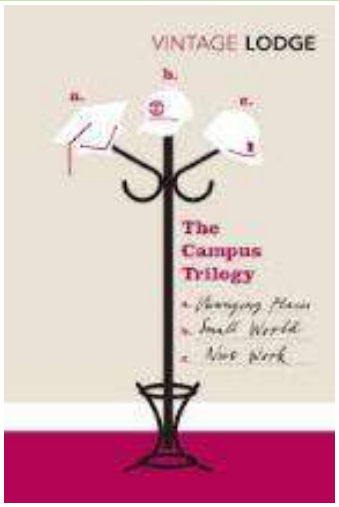
Biochemical Engineering & Biotechnology

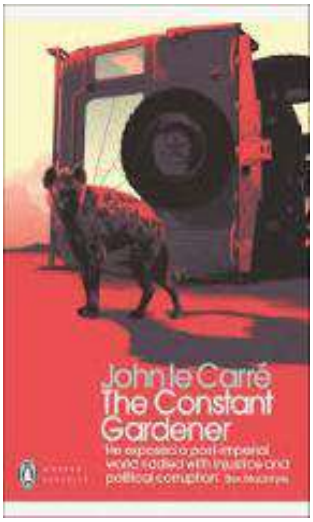
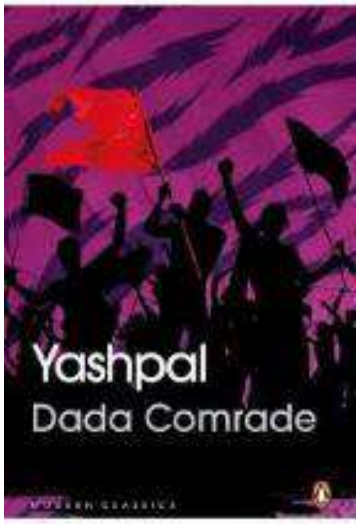
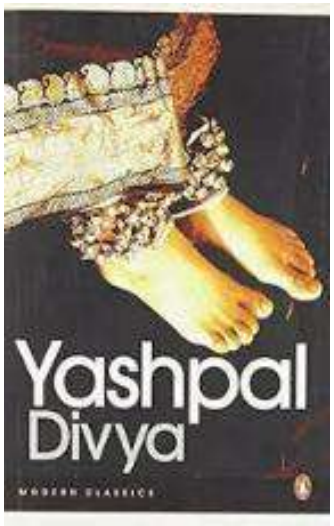
6		Statistical physics of biomolecules: an introduction by Daniel M. Zuckerman**,** Boca Raton**:** CRC Press**,** 2010**.** xxi, 334 p. Includes index (p. 325-334) ISBN: 9781138051577 Subject Terms: Computational biology; Biophysics; Entropy; Biomolecular simulation; Probability theory 577.1:531.19 ZUC-S Barcode: 180636; TB **Click here for more details.**
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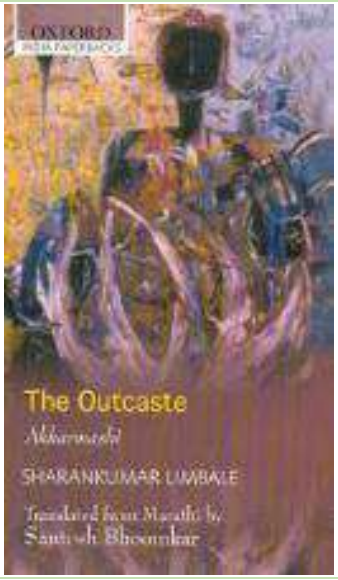
Biomedical Engineering

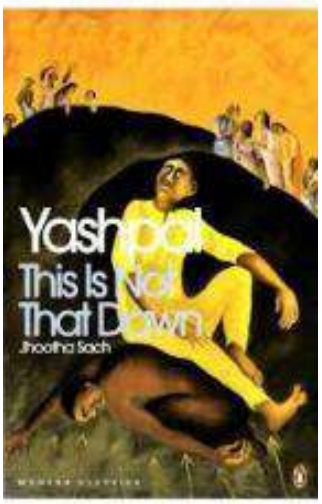
7		Medical imaging signals and systems by Jerry L. Prince and Jonathan M. Links**,** 2nd ed. Boston**:** Pearson**,** 2015**.** xv, 519 p. Includes Index (p. 497-519) ISBN: 9780132145183 Subject Terms: Tomography; Ultrasound; Scintigraphy; Radiography; Magnetic resonance
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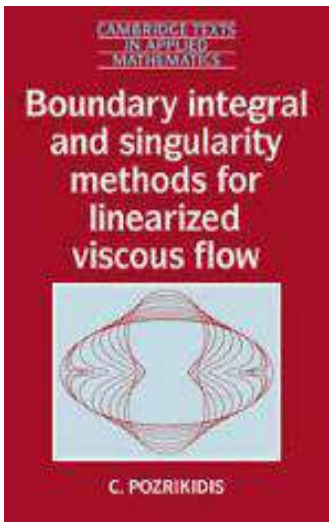
8		AI engineering: building applications with foundation models by Chip Huyen**.** Sebastopol**:** O'Reilly Media**,** 2025**.** xxi, 509 p. Includes index (p. 497-509) ISBN: 9789355426666 Subject Terms: Coding; AI applications; Generation capability; Retrieval algorithms; Dataset engineering
		681.3 HUY-A
		Barcode: 180739; CL
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9		Campus trilogy by David Lodge**,** London**:** Vintage Books**,** 2011**.** xxi, 890 p. ISBN: 9780099529132 Subject Terms: Novel; Full length stories; English literature; Humor; Satire
		82-31 LOD-C
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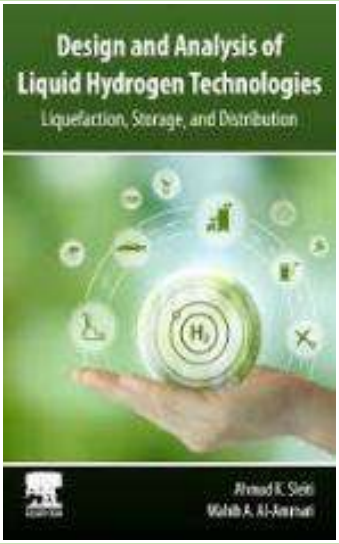
10		Constant gardener by John Le Carre**,** Dublin**:** Penguin**,** 2018**.** 549 p. ISBN: 9780241322307 Subject Terms: Novel; Full length story; English literature; Amateur gardener; 82-31 CAR-C Barcode: 180711; CL **Click here for more details.**
11		Dada comrade by Yashpal and translated by Simona Sawhney**,** Gurugram**:** Penguin Books**,** 2021**.** xli, 249 p. ISBN: 9780143455127 Subject Terms: Autobiography; Dairy; Novel; Indian literature; 82-31 YAS-C Barcode: 180712; CL **Click here for more details.**
12		Divya by Yashpal**,** Gurugram**:** Penguin**,** 2009**.** xxx, 269 p. ISBN: 9780143103127 Subject Terms: Novel; English literature; Full length story; Hindu and Buddhist ideologies; Struggle for self-determination 82-31 YAS-D Barcode: 180707; CL **Click here for more details.**

13		Man who died twice by Richard Osman**,** Dublin**:** Penguin**,** 2022**.** 422 p. ISBN: 9780241988244 Subject Terms: Novel; English literature; Full length stories; Mystery;
		82-31 OSM-M
		Barcode: 180708; CL
		Click here for more details.
14		Outcaste: akkarmashi by Sharankumar Limbale and translated by Santosh Bhoomkar**,** New Delhi**:** Oxford University Press**,** 2007**.** xxv, 121 p. ISBN: 9780195694062 Subject Terms: Autobiography; Darker side of society; Inspirational; Dalit; Social justice
		929LIM LIM-O
		Barcode: 180736; CL
		Click here for more details.
15		Science, technology and innovation ecosystem: an Indian and global perspective edited by Kashmir Singh...[et al.]**,** Singapore**:** Springer**,** 2024**.** xxiv, 435 p. ISBN: 9789819728145 Subject Terms: Global and national policy; Reinvigoration science; Cutting edge design for trust roadmap; Technology push; Non educational sectors
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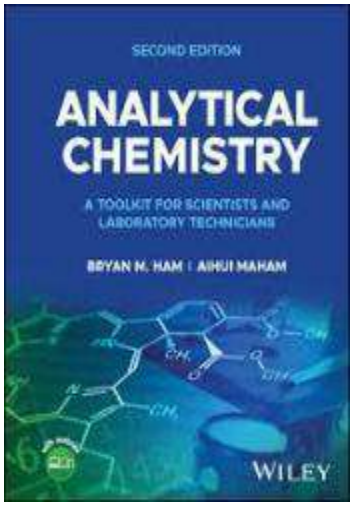
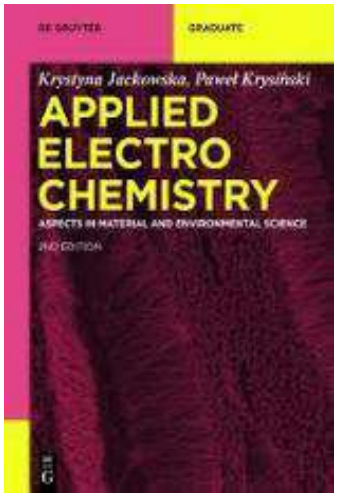
16		This is not that dawn by Yashpal and translated by Anand**,** Gurugram**:** Penguin Books**,** 2010**.** xxvi, 1119 p. ISBN: 9780143103134 Subject Terms: Hindi fiction; History; Partition of India; Hindi literature; Partition
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Chemical Engineering

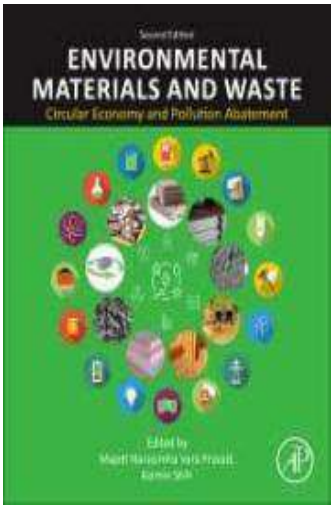
17		Advanced transport phenomena: fluid mechanics and convective transport processes by L. Gary Leal**,** Cambridge**:** Cambridge University Press**,** 2010**.** xix, 912 p. **-** Cambridge series in chemical engineering**.** Includes index (p. 899- 912) ISBN: 9780521179089 Subject Terms: Conservation of mass; Equations of motion; Eccentric cylinder; Lubrication forces; Laminar boundary-layer theory
		66.026 LEA-A
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18		Boundary integral and singularity methods for linearized viscous flow by C. Pozrikidis**,** Cambridge**:** Cambridge University Press**,** 1992**.** xi, 259 p. **-**Cambridge texts in applied mathematics**.** Includes references and index (p. 249-259) ISBN: 9780521406932 Subject Terms: Boundary element methods; Fluids mechanics; Integral methods; Viscous flow - mathematic; Green's functions
		517.544:532.516 POZ-B
		Barcode: 180715; CHE
		Click here for more details.

19		Design and analysis of liquid hydrogen technologies: liquefaction, storage, and distribution by Ahmad K. Sleiti and Wahib A. Al-Ammari**,** Amsterdam**:** Elsevier**,** 2024**.** vii, 369 p. include index (p. 357-369) ISBN: 9780443214387 Subject Terms: Energy and exergy analyses; Hydrogen storage technologies; Liquid hydrogen cycles; Economic analysis; Environmental analysis
		661.96 SLE-D
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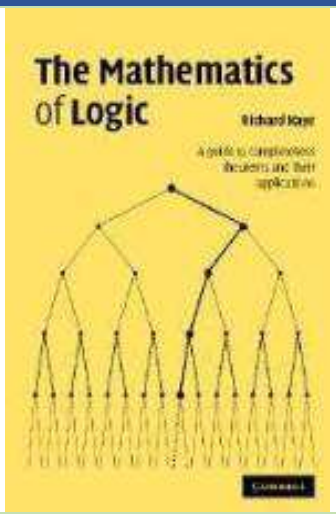
Chemistry

20		Analytical chemistry: a toolkit for scientists and laboratory technicians by Bryan M. Ham and Aihui Maham**,** 2nd ed**.,** New Jersey**:** Wiley**,** 2024**.** xxvi, 658 p. Includes index (p. 637-658) ISBN: 9781119894452 Subject Terms: Chemist and technician; Analytical laboratory; Plotting and graphing; Acid based theory; Oxidation
		543 HAM-A
		Barcode: 180670; CL
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21		Applied electrochemistry: aspects in material and environmental science by Krystyna Jackowska and Pawel Krysinski**,** 2nd ed., Berlin**:** De Gruyter**,** 2024**.** xiv, 390 p. Includes index (p. 385-390) ISBN: 9783111160344 Subject Terms: Ionic liquid; Equilibrium potentials; Nanostructures; Electrocatalysis; Electrodeposition
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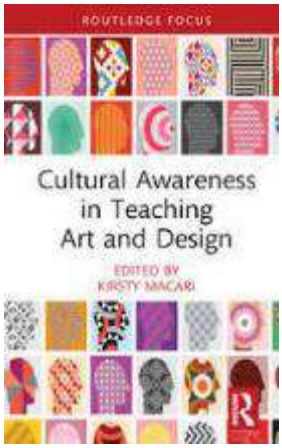
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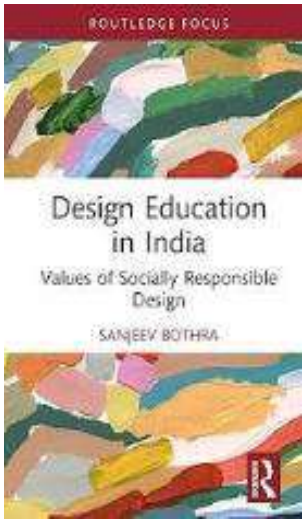
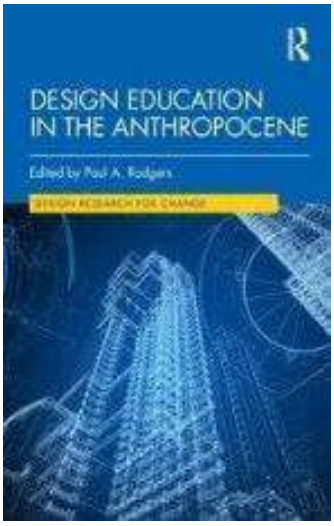
22		Environmental materials and waste: circular economy and pollution abatement edited by Majeti Narasimha Vara Prasad, 2nd ed., Amsterdam: Elsevier, 2024. xxi, 858 p. Includes index (p. 835-858) ISBN: 9780443220692 Subject Terms: Recycling biowaste; Resource recovery; Pollution control; Biochar production; Acid mine 628.4 -ENV Barcode: 180725; CL **Click here for more details.**

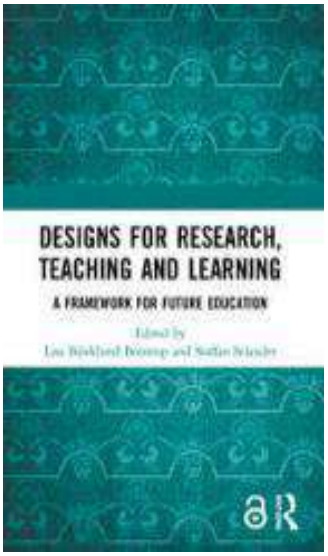
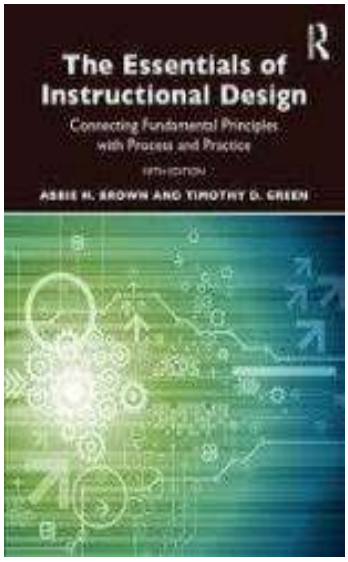
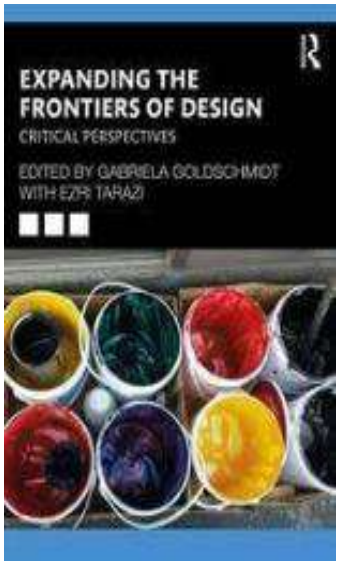
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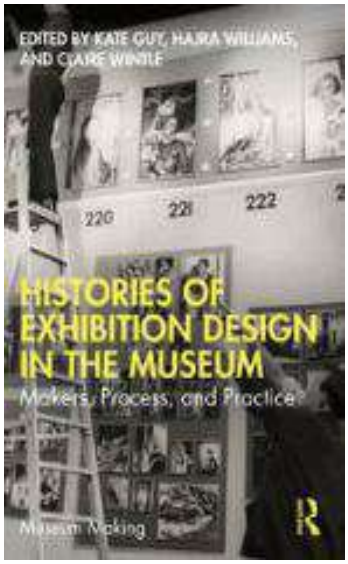
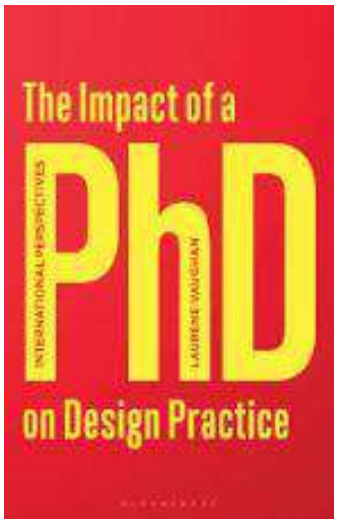
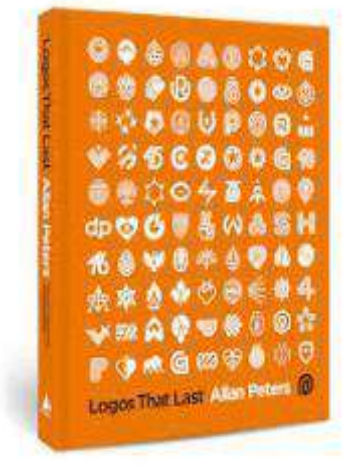
23		Mathematics of logic: a guide to completeness theorems and their applications by Richard Kaye, Cambridge: Cambridge University Press, 2007. xii, 204 p. Includes reference and index (p. 199-204) ISBN: 9780521708777 Subject Terms: Formal systems; Model thoery; Boolean algebras; Valuations; Nonstandard analysis 510.6 KAY-M Barcode: 180735; CL **Click here for more details.**

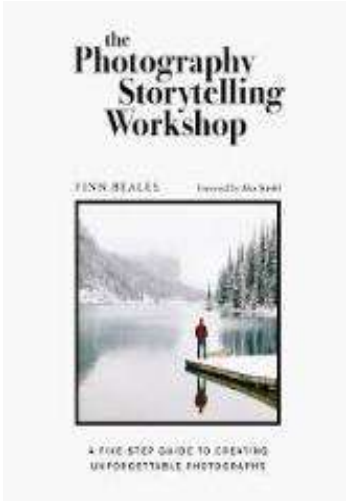
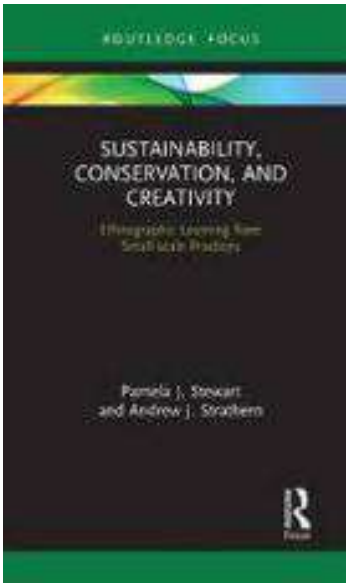
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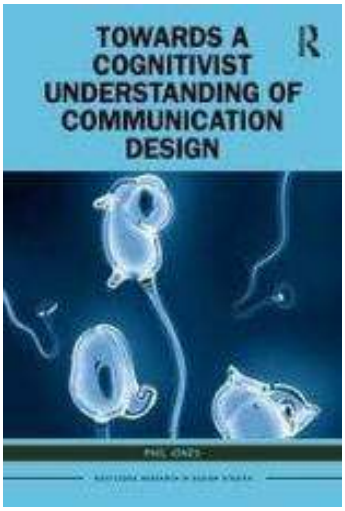
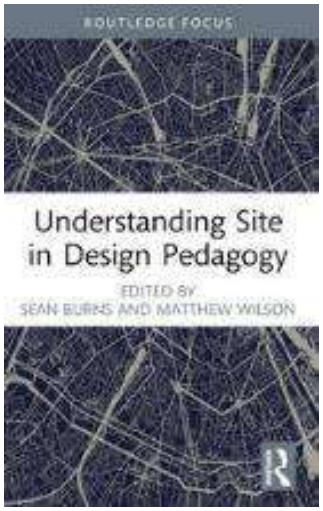
24		Cultural awareness in teaching art and design edited by Kirsty Macari, London: Routledge, 2024. ix, 118 p. - Routledge focus on design pedagogy. Includes index (p. 113-118) ISBN: 9781032616612 Subject Terms: Study and teaching; Social aspects; Cultural awareness; Education; Art 74:37.013.43 -CUL Barcode: 180650; CL **Click here for more details.**

25		Design education in India: values of socially responsible design by Sanjeev Bothra and edited by Nita Mukherjee**,** London**:** Routledge**,** 2024**.** 129 p. **-** Routledge research in social design**.** Includes references and index (p.121-129) ISBN: 9781032468020 Subject Terms: Prologue; Spaceship earth; Personal belief system; Sustainable architecture; Educational research
		74:37.016(540) BOT-D
		Barcode: 180642; CL
		Click here for more details.
26		Design education in the anthropocene edited by Paul A. Rodgers**,** New York**:** Routledge**,** 2024**.** ix, 164 p. Includes Index (p.157-164) ISBN: 9780367627911 Subject Terms: Design - Social aspects; Design - Study and teaching; Teaching methods and materials; Arts and humanities; Difference and diversity
		74:572.02 -DES
		Barcode: 180681; CL
		Click here for more details.
27		Designing spatial culture by Roderick Adams, London**:** Routledge**,** 2024**.** x, 178 p. Includes index and bibliography (p. 167-178) ISBN: 9781032218755 Subject Terms: Architecture; Criticism; Interior design; Spaces; Architecture and society
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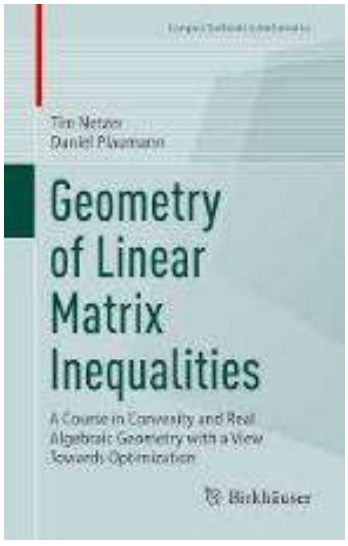
28		Designs for research, teaching and learning: a framework for future education edited by Lisa Björklund Boistrup and Staffan Selander**,** London**:** Routledge**,** 2022**.** xx, 159 p. Includes index (p. 154-159) ISBN: 9780367561260 Subject Terms: Semiotic and design; Design and research; Design workshops; Touring science centre; Theoretical aspects of designing
		37.091.39:72 -DES
		Barcode: 180641; CL
		Click here for more details.
29		Essentials of instructional design: connecting fundamental principles with process and practice by Abbie H. Brown and Timothy D. Green**,** 5th ed**.,** New York**:** Routledge**,** 2024**.** xi, 278 p. includes index (271-278) ISBN: 9781032520018 Subject Terms: Information and communication technology; Internet and multimedia; Technology in education; Allied health; Adult education and lifelong learning
		37.091.3 BRO-E
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30		Expanding the frontiers of design: critical perspectives edited by Gabriela Goldschmidt and Ezri Tarazi**,** London**:** Routledge**,** 2024**.** vii, 511 p. Includes index (494-511) ISBN: 9780367772000 Subject Terms: Designed to write; communicating space tech innovation; Designing for change; complex socio-technical systems; space tech innovation
		74:159.955 -EXP
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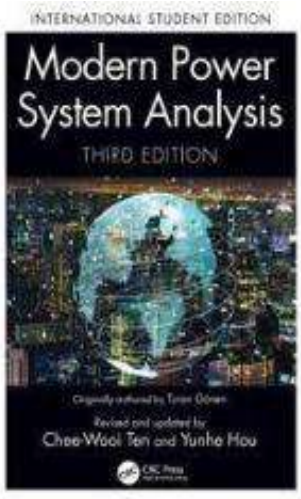
31		Histories of exhibition design in the museum: makers, process and practice edited by Guy Kate, Hajra Williams and Claire Wintle**,** London**:** Routledge**,** 2024**.** xviii, 267 p. Includes index (268-275) ISBN: 9781032156934 Subject Terms: Exhibition work; Exhibition work; Beaton portraits; Exhibition culture; Exhibition design 74:069.4(09) -HIS Barcode: 180649; CL **Click here for more details.**
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33		Logos that last: how to create iconic visual branding by Allan Peters**,** Beverly**:** Rockport Publishers**,** 2023**.** 208 p. Includes index (p. 206-208) ISBN: 9780760383179 Subject Terms: Brand evolution; Case studies; Inspiration hunting; Badge design; Brand mark 74:659.126 PET-L Barcode: 180677; CL **Click here for more details.**
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36		Sustainability, conservation, and creativity: ethnographic learning from small-scale practices by Pamela J. Stewart and Andrew J. Strathern**,** London**:** Routledge**,** 2020**.** 54 p. **-** Routledge focus on environment and sustainability**.** Includes index and references (p. 49-54) ISBN: 9781032240282 Subject Terms: Conceptual orientations; Traditional conservation; Cash-cropping; Mining; Farming
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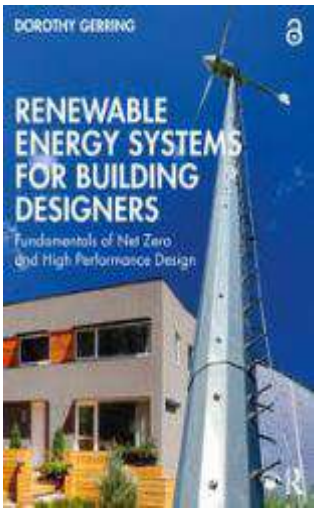
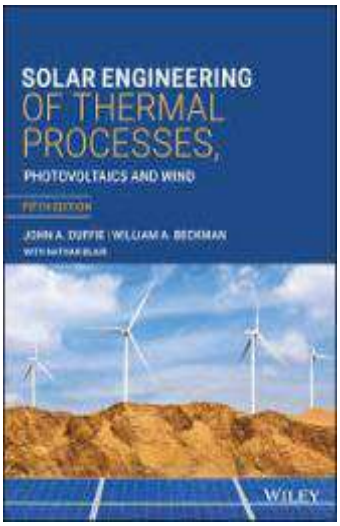
37		Towards a cognitivist understanding of communication design by Phil Jones**,,** New York**:** Routledge**,** 2024**.** x, 221 p. **-** Routledge research in design series**.** Includes index (p. 213-221) ISBN: 9781032202877 Subject Terms: Communication; Conduit metaphor; Communication design; Speculative design; Ideation
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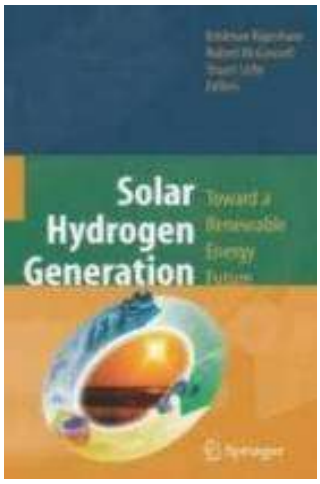
Electrical Engineering

39		Geometry of linear matrix inequalities: a course in convexity and real algebraic geometry with a view towards optimization by Tim Netzer and Daniel Plaumann**,** Cham**:** Springer**,** 2023**.** viii, 161 p. **-** Compact textbooks in mathematics**.** Includes references (p.157-161) ISBN: 9783031264542 Subject Terms: Algebraic geometry; Convex domains; Mathematical optimization; Hyperbolic polynomials; Convex and discrete geometry
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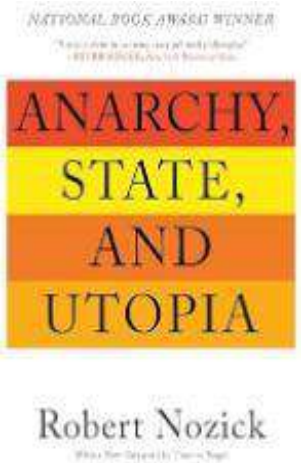
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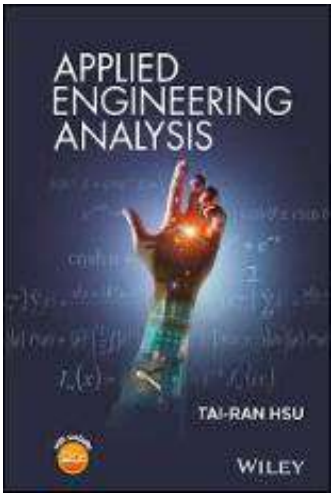
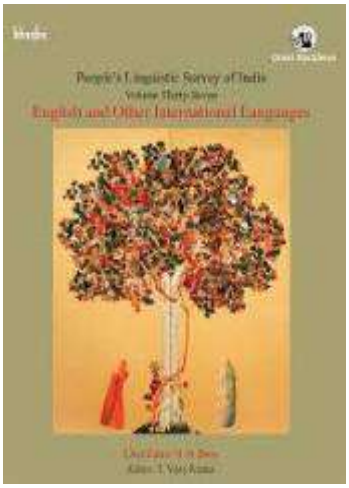
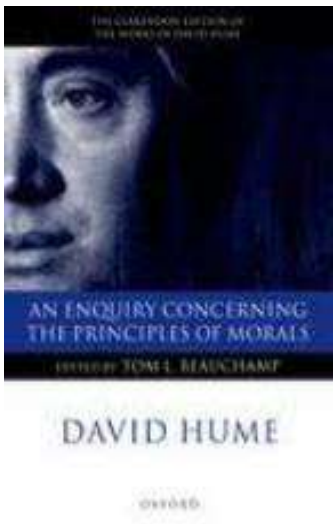
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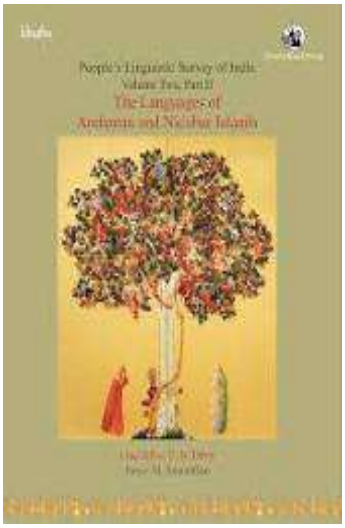
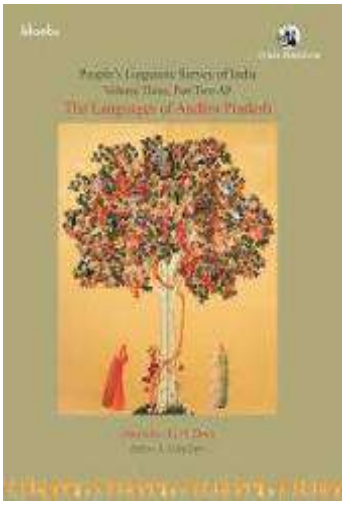
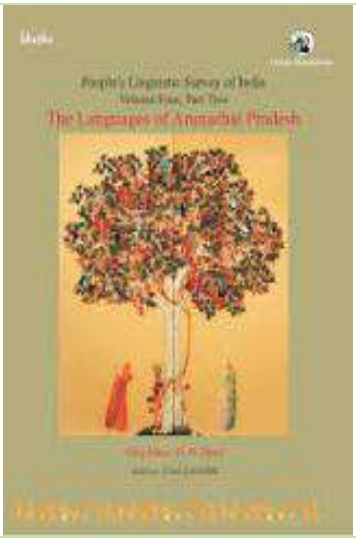
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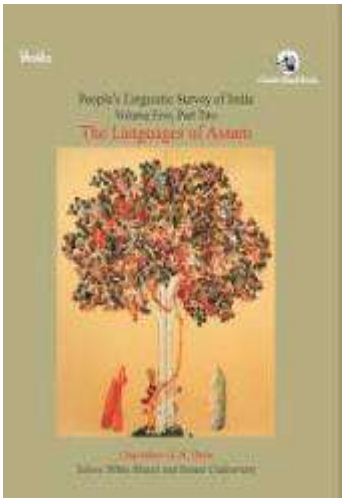
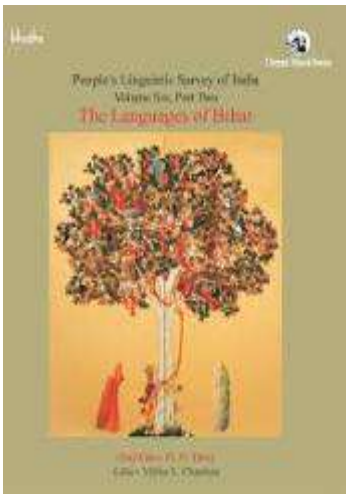
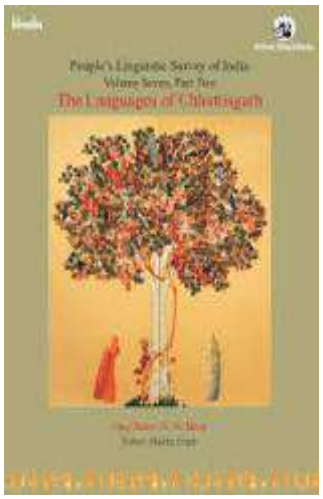
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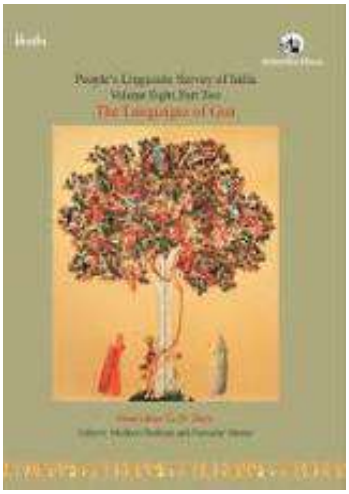
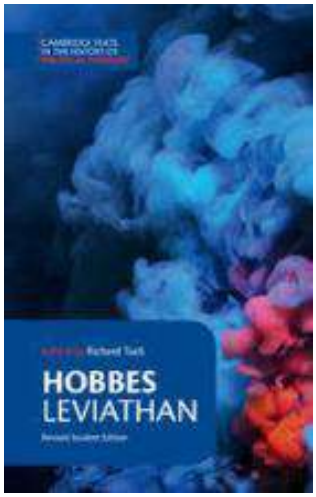
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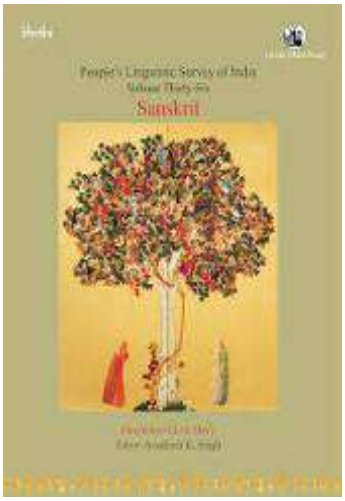
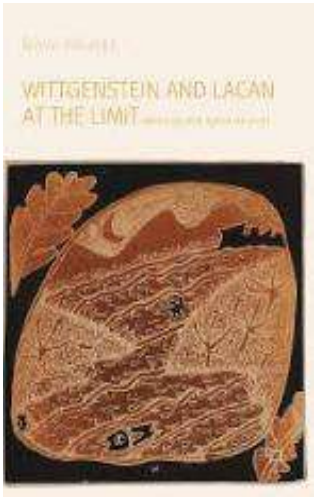
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		330.101.8 -ADO
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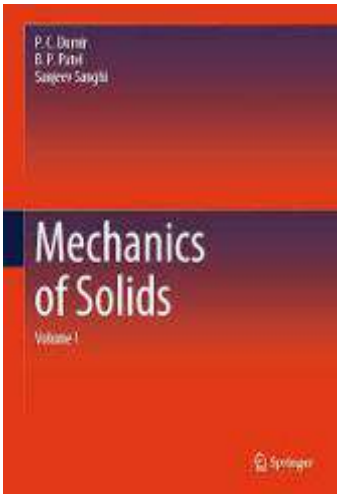
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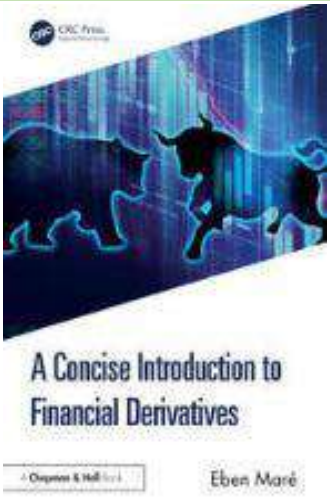
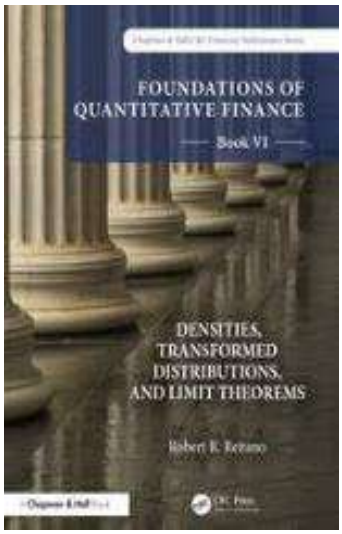
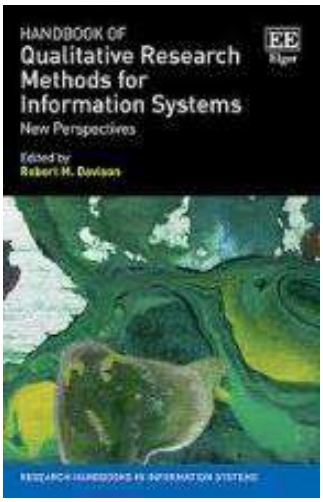
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		82-92 -PRI
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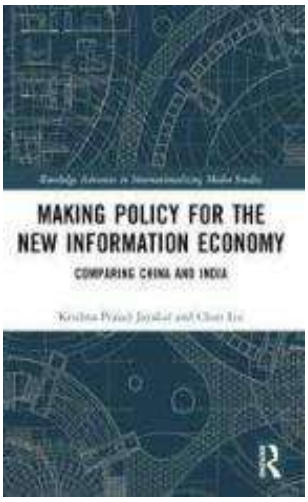
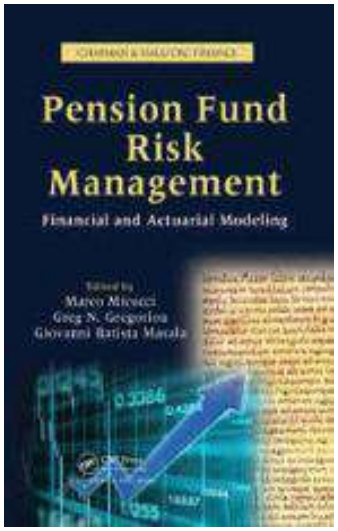
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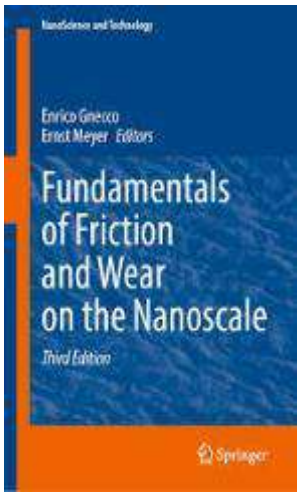
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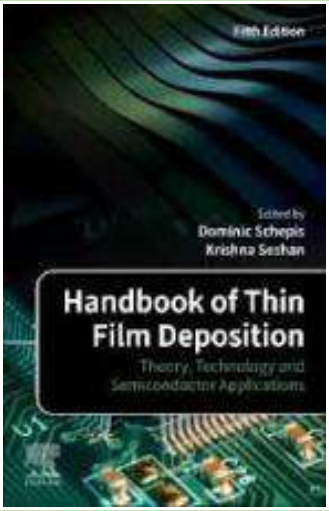
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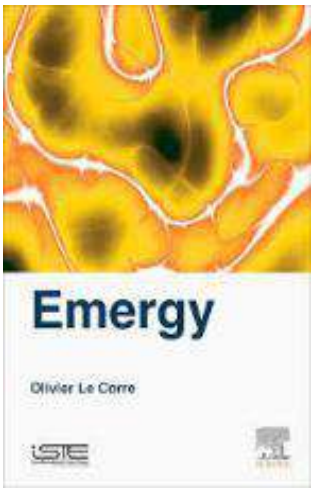
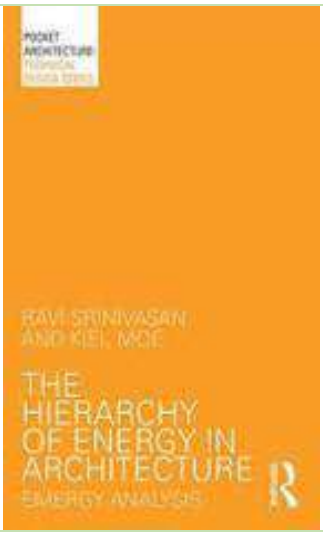
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65		Pension fund risk management: Financial and actuarial modeling edited by Marco Micocci, Greg N. Gregoriou and Giovanni Batista Masala**,** Boca Raton**:** CRC Press**,** 2024**.** xxxvi, 728 p. **-** Chapman and Hall/CRC finance**.** Includes index (p. 707-728) ISBN: 9781032917573 Subject Terms: Pensions; Schemes; Management; Inflation; Securitization 364-646.2:330.131.7 -PEN Barcode: 180771; DMS **Click here for more details.**

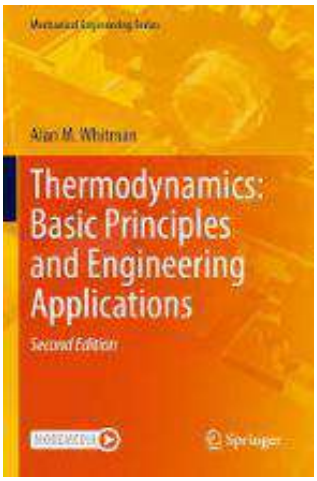
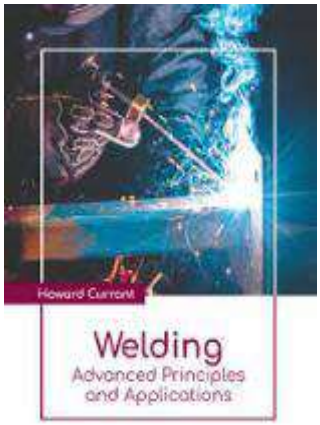
Materials Science and Engineering

66		Fundamentals of friction and wear on the nanoscale edited by Enrico Gnecco and Ernst Meyer**,** 3rd ed.**,** Cham**:** Springer**,** 2024**.** xix, 452 p.**, -** Nanoscience and technology**.** ISBN: 9783031630644 Subject Terms: Friction forces; Surface forces; Atomic force; Scale friction; Crystal surfaces 621.89 -FUN Barcode: 180671; CL **Click here for more details.**
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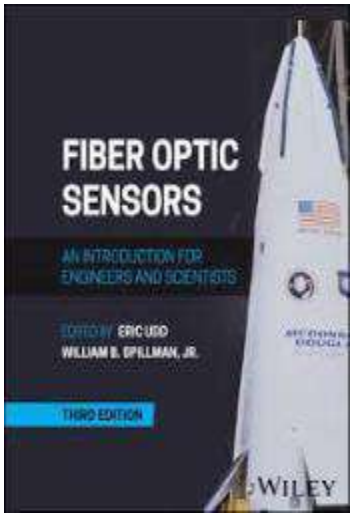
67		Handbook of thin film deposition: theory, technology and semiconductor applications edited by Dominic Schepis and Krishna Seshan**,** 5th ed., Amsterdam**:** Elsevier**,** 2025**.** xix, 517p. Includes index (p. 509-517) ISBN: 9780443135231 Subject Terms: Reduction to practice; On-chip interconnects; Sputter processing; Film growth; CVD processing
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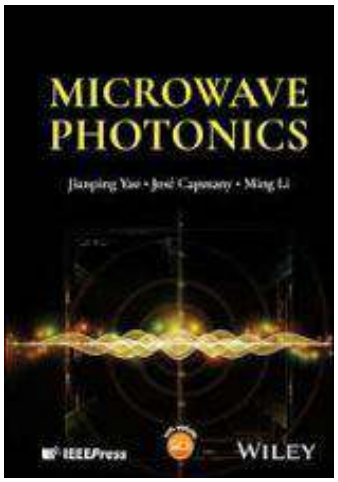
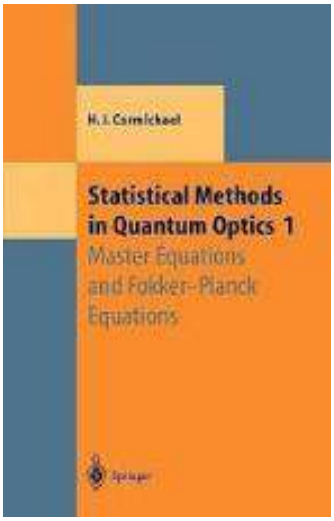
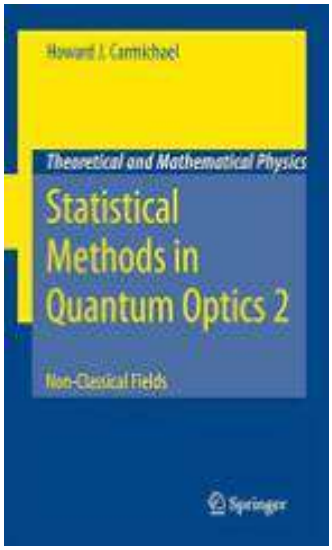
Mechanical Engineering

68		Emergy by Olivier Le Corre**,** London**:** ISTE Press**,** 2016**.** xxiii, 152 p. Includes bibliography and index (p. 147-153) ISBN: 9781785480973 Subject Terms: Force and energy; Wind resources; Emergy and recycling; Environmental economics; Thermodynamics
		620.98 LE-E
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69		Hierarchy of energy in architecture: emergy analysis by Ravi Srinivasan and Kiel Moe**,** Abingdon**:** Routledge**,** 2015**.** xvi, 152 p. **-** Pocket architecture: technical design seires**.** Includes index (p. 149-151) ISBN: 9781138803534 Subject Terms: Fundamentals; Energy entropy; Emergy analysis; Applications; Emergy evaluation
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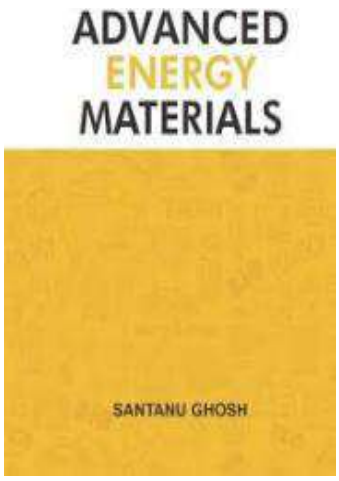
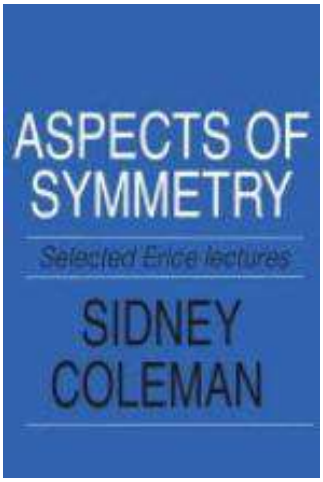
70		Thermodynamics: basic principles and engineering applications by Alan M. Whitman**,** 2nd ed.**,** Cham**:** Springer**,** 2023**.** xi, 357 p. - Mechanical engineering series**.** Includes index (p. 351-357) ISBN: 9783031195402 Subject Terms: Fluid mechanics; Fuels; Steam engine; Material science; Heat transfer
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71		Welding: advanced principles and applications edited by Howard Currant**,** New York**:** Larsen and Keller**,** 2023**.** vi, 247 p. Includes index (p. 246-247) ISBN: 9798888360057 Subject Terms: Vacuum brazing; Automatic control; Hard alloys; Data analysis; Heat treatment
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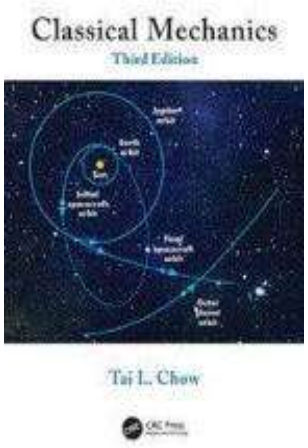
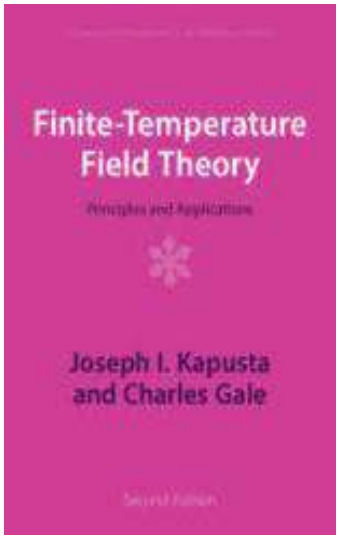
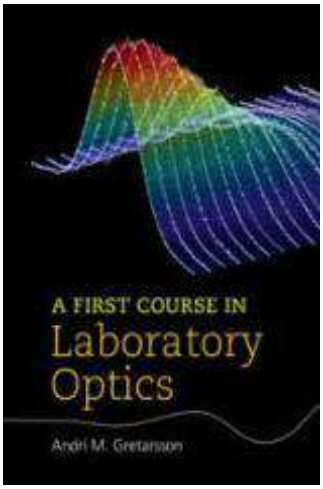
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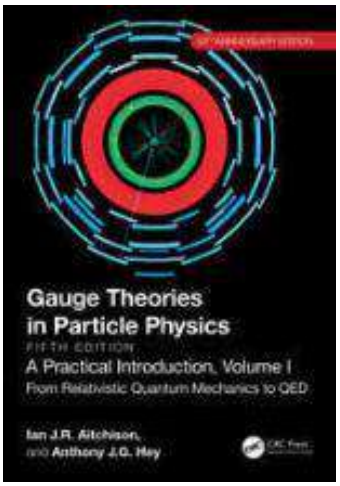
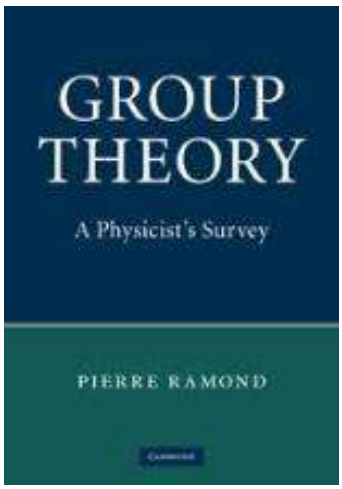
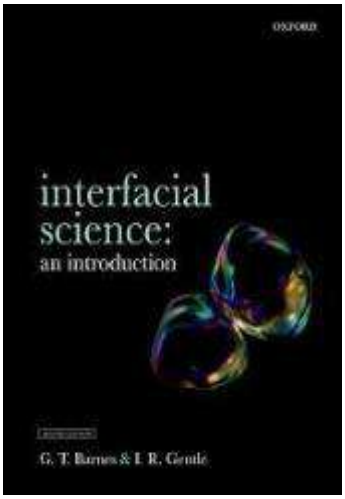
72		Fiber optic sensors: an introduction for engineers and scientists edited by Eric Udd and William B. Spillman**,** 3rd ed.**,** Hoboken**:** Wiley**,** 2024**.** xxi, 597 p.**,** Includes index (p. 593-597) ISBN: 9781119678786 Subject Terms: Optical fiber detectors; Multimode polarization sensors; Passive ring resonator gyros; Fiber grating sensors; Fiber optic magnetic biosensors
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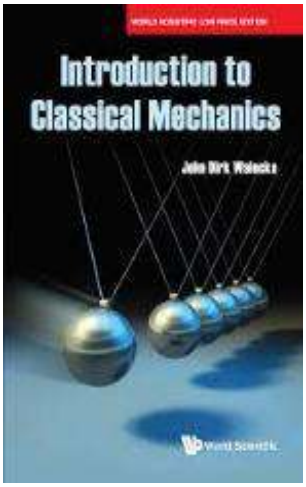
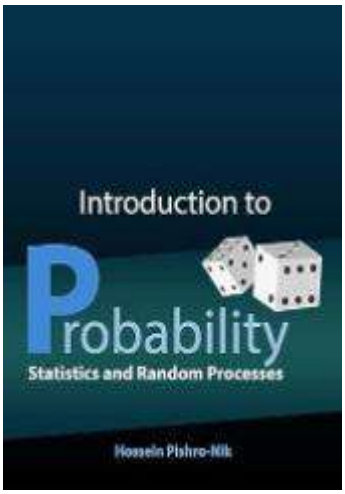
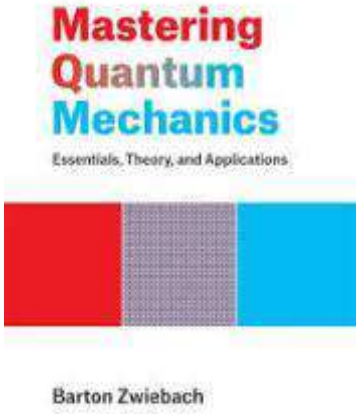
73		Microwave photonics by Jianping Yao, Jose Capmany and Ming Li**,** Hoboken**:** Wiley**,** 2024**.** xiii, 482 p. Includes index (p. 471-482) ISBN: 9781394205288 Subject Terms: Photonics; Optical devices; Microwave signals; Ultra-wideband signals; Photonic sensors
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		Barcode: 180665-180666; CL; OPC
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74		Statistical methods in quantum optics 1: master equations and fokker-planck equations by H. J. Carmichael**,** Berlin**:** Springer**,** 1999**.** xxiii, 365 p.**, -** Texts and monographs in physics**.** Includes reference and index (p. 349-365) ISBN: 9783642081330 Subject Terms: Quantum mechanics; Two-level atoms; Electromagnetic field; Fokker-Planck equation; Wigner and Haken's Representation
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75		Statistical methods in quantum optics 2: non-classical fields by Howard J. Carmichael**,** Heidelberg**:** Springer**,** 2008**.** xv, 540p. **-** Theoretical and mathematical physics**.** Includes reference and index (p. 515-540) ISBN: 9783642090417 Subject Terms: Simple calculations; Quantum fluctuations; Quantum trajectories; Quantum dynamics; Parametric oscillators
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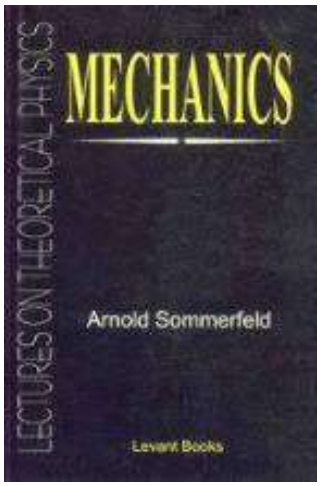
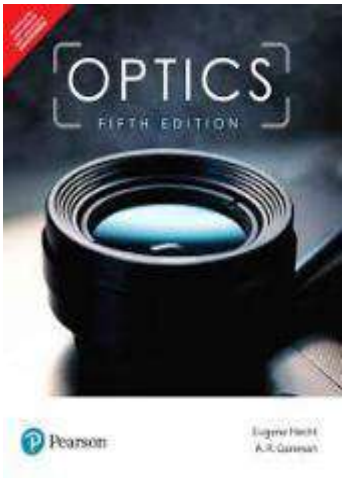
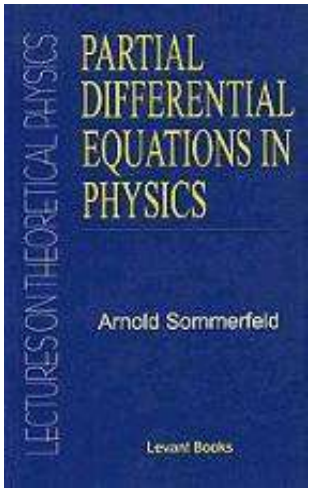
Physics

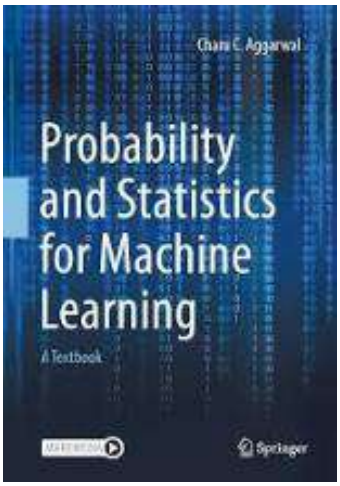
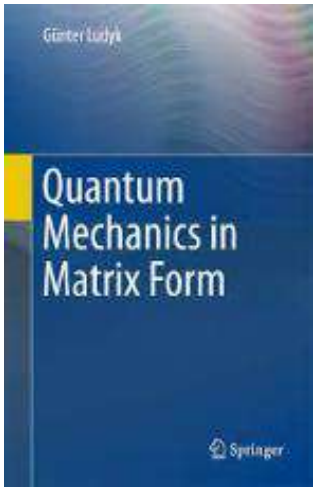
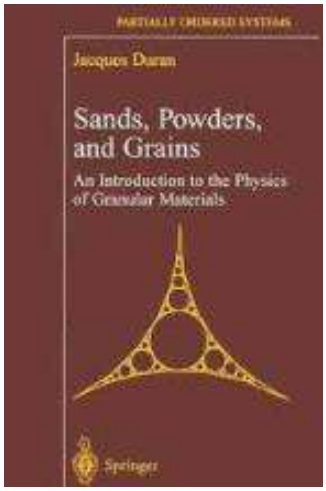
76		Advanced energy materials by Santanu Ghosh, New Delhi: Ane Books, 2025. 202 p. Includes index (p. 201-202) ISBN: 9788197531286 Subject Terms: Solar energy; Silicon solar cell; Semiconductor junction; Heterojunction; Thermo electric energy
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77		Aspects of symmetry: Selected Erice lectures by Sidney Coleman, Cambridge: Cambridge University Press, 1995. xiv, 402 p. ISBN: 9780521318273 Subject Terms: Unitary symmetry; Soft pions; Dilatations; Renormalization; Classical lumps
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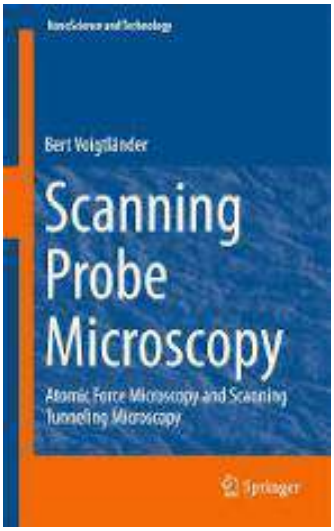
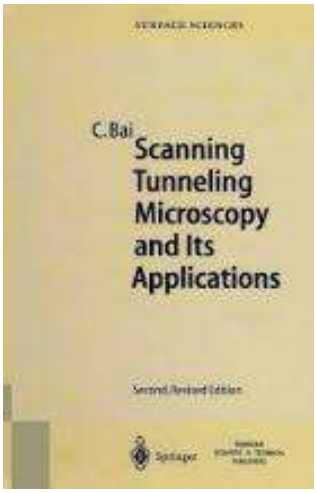
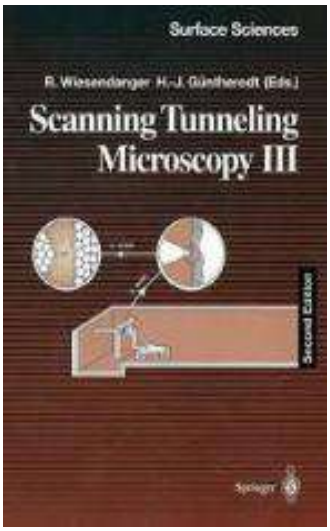
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81		First course in laboratory optics by Andri M. Gretarsson**,** Cambridge**:** Cambridge University Press**,** 2021**.** xi, 216 p. Includes reference and index (p. 211-216) ISBN: 9781108488853 Subject Terms: Light waves; Laser safety; Geometric optics; Physical optics; Polarization
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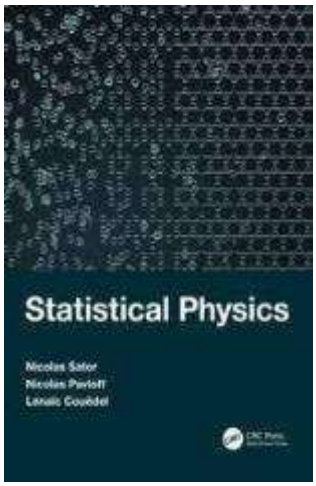
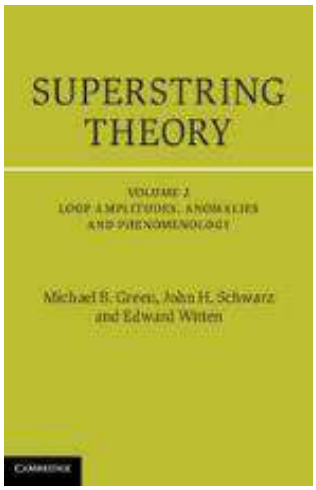
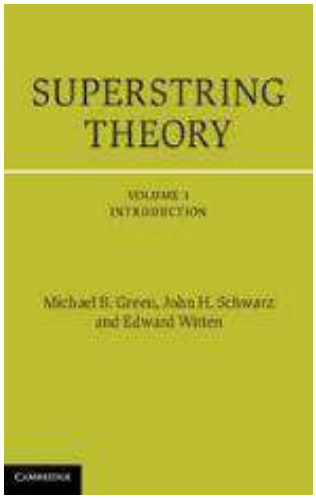
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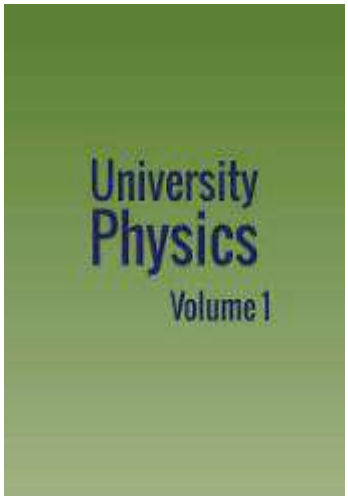
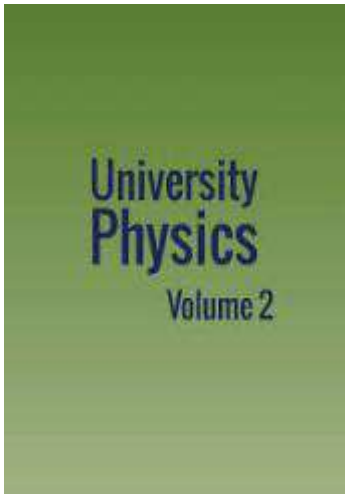
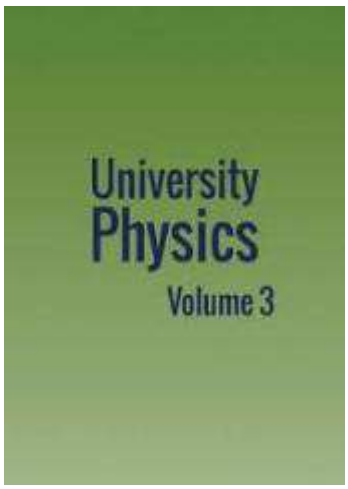
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87		Mastering quantum mechanics: essentials, theory, and applications by Barton Zwiebach**,** Cambridge**:** MIT Press**,** 2022**.** xxiii, 1071 p. Includes index (1065-1071) ISBN: 9780262046138 Subject Terms: Quantum theory; Entanglement; Scattering; Vector spaces; Harmonic oscillator 530.145 ZWI-M Barcode: 180682; PH **Click here for more details.**

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89		Optics by Eugene Hecht and A. R. Ganesan**,** 5th ed., Noida**:** Pearson**,** 2020**.** 749 p. Includes bibliography and index (p. 735-748) ISBN: 9789353439590 Subject Terms: Wave motion; Electromagnetic theory; Geometrical optics; Polarization; Fourier optics
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90		Partial differential equations in physics: lectures on theoretical physics by Arnold Sommerfeld**,** Kolkata**:** Levant Books**,** 2004**.** vii, 334 p. Includes index (p. 331-334) ISBN: 9788187169499 Subject Terms: Hyperbolic differential equations; Parabolic; Cylinder and sphere problems; Potential theory; Eigenfunctions
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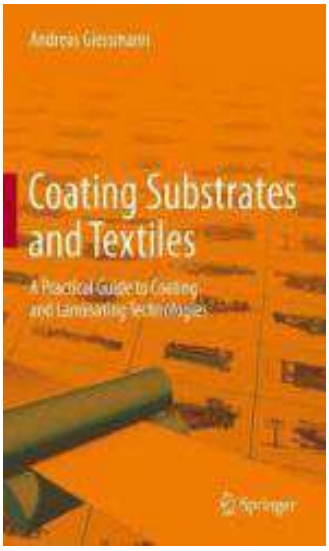
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92		Quantum mechanics in matrix form by Gunter Ludyk**,** Cham**:** Springer**,** 2018**.** xiii, 214 p. Includes references and index (p. 209-214) ISBN: 9783319263649 Subject Terms: Sommerfeld's derivation; Heisenberg's year 1925; Matrix method; Harmonic oscillator; Magnetic fields
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93		Sands, powders, and grains: an introduction to the physics of granular materials by Jacques Duran and translated by Axel Reisinger**,** New York**:** Springer**,** 2000**.** xiii, 214 p. Includes bibliography and index (p. 209-214) ISBN: 9780387986562 Subject Terms: Construction materials; Laminar and turbulent drag; Fluidization; Segregation; Numerical simulation
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94		Scanning probe microscopy: atomic force microscopy and scanning tunneling microscopy by Bert Voigtlander, Heidelberg: Springer, 2015. xv, 381 p. - Nanoscience and technology. Includes references and index (p. 375-382) ISBN: 9783662452394 Subject Terms: Atomic force microscopy; Materials science; Nanotechnology and microengineering; Scanning probe microscopy; Scanning tunneling microscopy
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95		Scanning tunneling microscopy and its application by Chunli Bai, 2nd ed., Berlin: Springer, 2000. xiv, 368 p. - Springer series in surface sciences. ISBN: 9783540657156 Subject Terms: Optical microscopy; Scanning tunneling; Surface structure; Spectroscopies; Vibration isolation
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