



Central Library

New Addition of Books

(Printed Books Added During 1st – 31st May 2022)



How to recommend a book?

You may recommend the books by filling out recommendation forms available on the website (<https://library.iitd.ac.in/book-recommendation>) or through the online recommendation system (<https://internal.iitd.ac.in/library/>) using your Kerberos id and password.

Scan below QR code for Previous New Arrivals.



Please contact to Collection Development Division, Central Library on 2659 6652 / 6096 or write to cdd@library.iitd.ac.in if you have any feedback



CONTENTS

Deptt. /Centre /School /Unit	Page No.
Applied Mechanics.....	2
Automotive Research and Tribology	3
Atmospheric Sciences.....	3
Chemistry	4
Central Library*	5
Rural Development & Technology	6
Computer Science and Engineering.....	7
Electrical Engineering	8
Energy Science and Engineering	12
Humanities & Social Sciences.....	16
Management Studies	19
Mathematics	20
Mechanical Engineering	23
Physics.....	26
School of Biological Science.....	31
School of Public Policy	32
Textile & Fibre Engineering	39
Thesis Collections	42



Computational fluid dynamics for incompressible flows **by** D. G. Roychowdhury - Boca Raton CRC Press 2021 - xvii, 391p. -

Includes bibliography and index (p. 381-391)

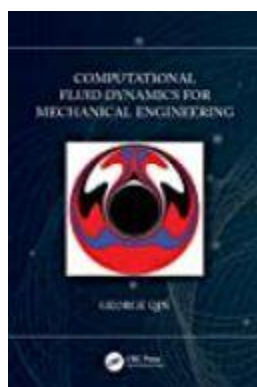
ISBN: 9780367408060

Subjects Terms: Governing equations Finite difference method Finite volume method Complex geometries Algebraic equations Turbulence modeling

532.5:681.3 ROY-C

175974

[Click here for more details](#)



Computational fluid dynamics for mechanical engineering by Geroge Qin - Boca Raton CRC Press 2021 - xii, 369p. -

Includes bibliography and index (p.361-369)

ISBN: 9780367687298

Subjects Terms: Computational fluid dynamics Mechanical engineering Volume of fraction MATLAB

532.5:519.6 QIN-C

176065-176568 (AM)

[Click here for more details](#)



General theory of fluid mechanics by Peiqing Liu - Singapore Springer 2021 - xiv, 649p. -

Includes bibliography and index (p.643-649)

ISBN: 9789813366596

Subjects Terms: Aerodynamics Hydrodynamics Computational fluid dynamics Tunnel equipment Flight mystery

532 LIU-G

175962

[Click here for more details](#)

[Back to Content](#)

Automotive Research and Tribology



Advanced automotive fault diagnosis automotive technology: vehicle maintenance and repair by Tom Denton - 5th ed. - Abingdon Routledge 2021 - xxi, 396 p. -

Includes bibliography and index (p. 387-396)

ISBN: 9780367330521

Subjects Terms: Diagnostic technique Tools and equipment Sensors Actuators Oscilloscope diagnostics Engine systems Electrical systems Transmission systems

629.3.083 DEN-A

176324-176325 (CART)

[Click here for more details](#)



FRP composite structures theory, fundamentals, and design by Hota V.S. GangaRao and Woraphot Prachasaree - Boca Raton CRC Press 2022 - xvii, 515p. -

Includes bibliography and index (p. 509-515)

ISBN: 9781032052519

Subjects Terms: Fiber-reinforced plastics Composite construction Composite materials Composite lamina Composite beams Flexural member design

624.012.4 GAN-F

176521

[Click here for more details](#)

Atmospheric Sciences



Fundamentals of meteorology by Vlado Spiridonov and Mladjen Curic - Cham Springer 2021 - xxv, 437 p. -

Includes bibliography and index (p. 431-437)

ISBN: 9783030526573

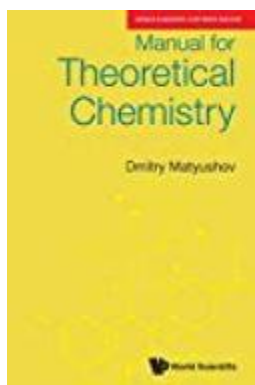
Subjects Terms: Atmospheric physics Atmospheric aerosols Hydrology Cyclones Weather forecasting Climate dynamics Climate change Air pollution Air quality

551.5 SPI-F

175898

[Click here for more details](#)

Chemistry



Manual for theoretical chemistry by Dmitry Matyushov - Singapore
World Scientific Publishing 2022 - xv, 356 p. -

Includes bibliography and index (p. 347-356)

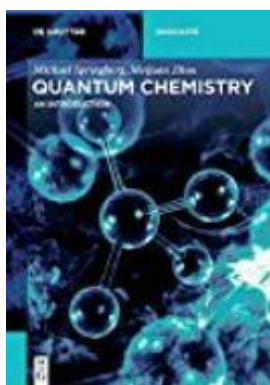
ISBN: 9781944660024

Subjects Terms: Vectors Tensors Electrostatics Classical mechanics
Quantum mechanics Statistical mechanics Liquids Molecular
hydrodynamics Elasticity Spectra Solvation

544 MAT-M

176544

[Click here for more details](#)



Quantum chemistry an introduction by Michael Springborg and
Meijuan Zhou - Berlin De Gruyter 2021 - xi, 340p. -

Includes bibliography and index (p. 335-340)

ISBN: 9783110742190

Subjects Terms: Quantum theory Vibrations Rotations Orbital model
Atoms Diatomic models Larger systems

544.18 SPR-Q

176102

[Click here for more details](#)



Silica-based organic-inorganic hybrid nanomaterials synthesis,
functionalization and applications in the field of catalysis by Rakesh
Kumar Sharma - New Jersey World Scientific 2020 - xvi, 260p. -
Sustainable chemistry series Vol. 4

Includes bibliography and index (p.259-260)

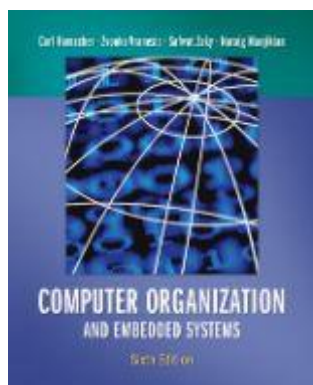
ISBN: 9781786347466

Subjects Terms: Nanomaterials Spectroscopy Magnetometer Fourier
transform Nanocatalysis

620.3:544.5 SHA-S

175927

[Click here for more details](#)



Computer organization and embedded systems by Carl Hamacher... (et al.) - 6th ed. - New York McGraw Hill Education 2012 - xx, 710p. -

Includes bibliography and index (p. 705-710)

ISBN: 9789339218317

Subjects Terms: Computer structure Computer architecture Computer input Computer output Computer software Computer memory Computer logic circuits Computer processor

681.3 -COM

175892-175894 (TB)

[Click here for more details](#)



Advances in biological treatment of industrial waste water and their recycling for a sustainable future edited by Lakhan Singh and Rajat Pratap Singh - Singapore Springer 2019 - xxii, 361p. - Applied environment science and engineering for a sustainable future

Include bibliography and index

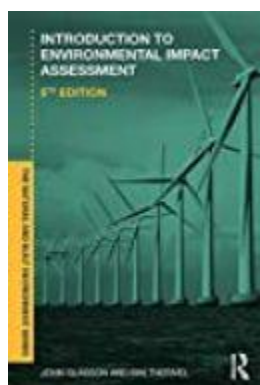
ISBN: 9789811346385

Subjects Terms: Pulp and paper mill Tannery Dairy industry Distillery Winery Sugar mill

628.3 -ADV

175908

[Click here for more details](#)



Introduction to environmental impact assessment by John Glasson and Riki Therivel - 5th ed. - London Routledge 2019 - xii, 381p. - Natural and built environment series

Includes bibliography and index (p. 376-381)

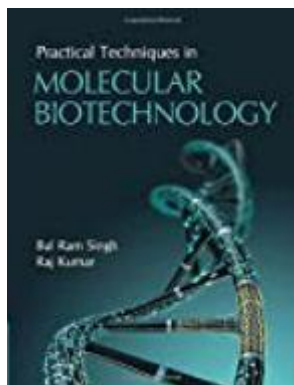
ISBN: 9781138600751

Subjects Terms: Infrastructure planning Project screening Development action Monitoring and auditing SWOT analysis Scoping

502.1 GLA-I

175909

[Click here for more details](#)



Practical techniques in molecular biotechnology by Bal Ram Singh and Raj Kumar - Cambridge Cambridge University Press 2021 - xxii, 355p. -

Includes bibliography and index (p.337-339)

ISBN: 9781108486408

Subjects Terms: Recombinant DNA Technology Enzyme kinetics Proteomics Mass spectrometry Biocalorimetry Molecular biology ELISA Polymerase Chain Reaction

577.2 SIN-P

176434

[Click here for more details](#)



Signature by Hunter Dukes - New York Bloomsbury 2020 - xii, 180p. - Object lessons

Includes bibliography and index (p.171-80)

ISBN: 9781501353345

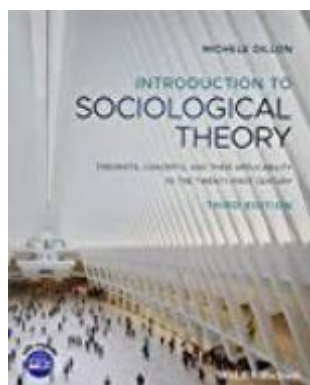
Subjects Terms: Autograph Criminal signatures Signets Autographic Skin Digital signatures Epigenetic signatures

003.64 DUK-S

176414

[Click here for more details](#)

Rural Development & Technology



Introduction to sociological theory theorists, concepts, and their applicability to the twenty-first century by Michele Dillon - 3rd ed. - New Jersey John Wiley 2020 - xxi, 530 p. -

Includes bibliography and index (p. 499-530)

ISBN: 9781119410911

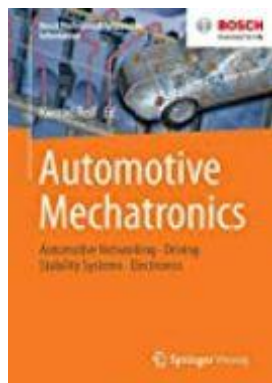
Subjects Terms: Marx's theory Living tradition Modern society American classics Critical theory Symbolic interactionsim Feminist theories Queer theory

316.2 DIL-I

175976-175977 (SPP)

[Click here for more details](#)

Computer Science and Engineering



Automotive mechatronics automotive networking, driving stability systems, electronics edited by Konrad Reif - Wiesbaden Springer 2015 - x, 538p. -

Include bibliography and index (p.522-538)

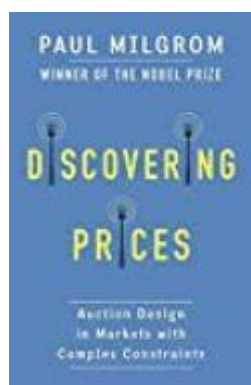
ISBN: 9783658039745

Subjects Terms: Automotive sensors Antilock braking system Hydraulic modulator Fault diagnostics Security systems

629-52 -AUT

175895

[Click here for more details](#)



Discovering prices auction design in markets with complex constraints by Paul Milgrom - New York Columbia University Press 2021 - xii, 232 p. -

Includes bibliography and index (p. 213-232)

ISBN: 9780231175999

Subjects Terms: Procurement market Mathematical models Auctions Auction theory Prices

339.146.2:51 MIL-D

176514

[Click here for more details](#)



From parallel to emergent computing edited by Andrew Adamatzky, Selim G. Akl and Georgios Ch. Sirakoulis - Boca Raton CRC Press 2019 - xx, 608 p. -

Includes bibliography and index (p. 585-608)

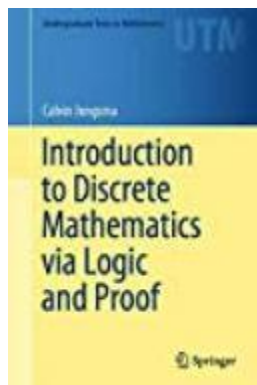
ISBN: 9780367656607

Subjects Terms: Computation Supercomputing Electronic computers Electronic data Parallel processing

681.3 -FRO

175834

[Click here for more details](#)



Introduction to discrete mathematics via logic and proof by Calvin Jongsma - Switzerland Springer 2019 - xx, 482p. - Undergraduate texts in mathematics

Includes bibliography and index (p. 473-482)

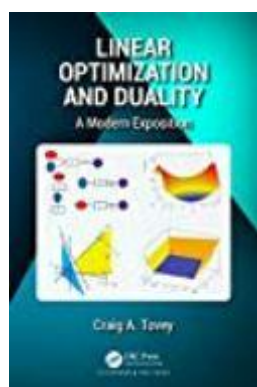
ISBN: 9783030253578

Subjects Terms: Propositional logic First-order logic Mathematical induction and arithmetic Basic set theory Combinatorics Functions and equivalence relations Boolean algebra Graph theory

512.817 JON-I

175907

[Click here for more details](#)



Linear optimization and duality a modern exposition by Craig A. Tovey - Boca Raton CRC Press 2021 - xxx, 555 p. -

Includes bibliography and index (p. 527-555)

ISBN: 9781439887462

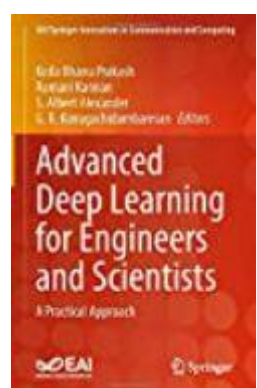
Subjects Terms: Linear programming Polyhedra Sensitivity analysis Network models Computational complexity

519.852 TOV-L

176522

[Click here for more details](#)

Electrical Engineering



Advanced deep learning for engineers and scientists practical approach edited by Kolla Bhanu Prakash... (et al.) - Cham Springer 2021 - xvii, 285p. - EAI/Springer innovations in communication and computing

Includes bibliography and index (p. 275-285)

ISBN: 9783030665180

Subjects Terms: Machine learning Python Keras Tensor flow Big data analysis Vector Real time applications

681.3 -ADV

176588

[Click here for more details](#)



Cooperative localization and navigation theory, research, and practice edited by Chao Gao, Guorong Zhao and Hassen Fourati - Boca Raton CRC Press 2020 - xxiii, 636 p. -

Includes bibliography and index (p. 615-636)

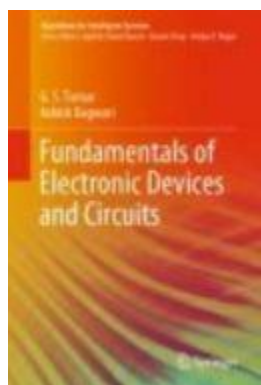
ISBN: 9781138580619

Subjects Terms: Remote sensing Communication Sensors Predictive control Robust cooperative Acoustic navigation

629.05 -COO

175835

[Click here for more details](#)



Fundamentals of electronic devices and circuits by G. S. Tomar and Ashish Bagwari - Singapore Springer 2020 - xx, 224 p. -

Include bibliography and index

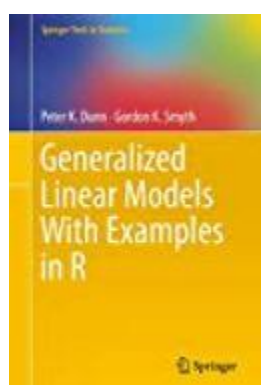
ISBN: 9789811502668

Subjects Terms: Semiconductors Transistor amplifier Oscillators Tuned amplifiers Diodes Loop Gain

621.382 TOM-F

175874

[Click here for more details](#)



Generalized linear models with examples in R by Peter K. Dunn and Gordon K. Smyth - New York Springer 2018 - xx, 562 p. -

Includes bibliography and index (p. 551-562)

ISBN: 9781441901170

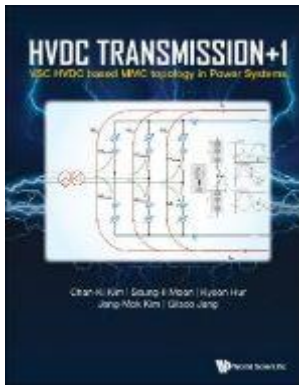
Subjects Terms: Linear models Linear regression Tweedie family distribution Saddlepoint approximation Randomized quantile residuals Statistical models

519.2R DUN-G

175853

[Click here for more details](#)

[Back to Content](#)



HVDC transmission +1 VSC HVDC based MMC topology in power systems by Chan-Ki Kim... (et al.) - Singapore World Scientific 2021 - xxiii, 471 p. -

Includes bibliography and index (p. 467-471)

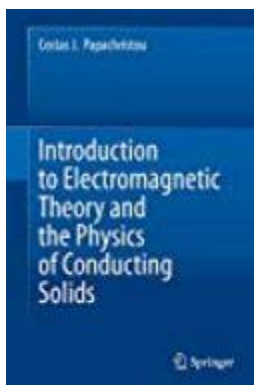
ISBN: 9789811212291

Subjects Terms: HVDC technologies IGBT device Power transmission Power semiconductor devices Grids Super grids

621.315 -HVD

175936-175937 (TB)

[Click here for more details](#)



Introduction to electromagnetic theory and the physics of conducting solids by Costas J. Papachristou - Cham Springer 2020 - xii, 246 p. -

Includes bibliography and index (p. 241-246)

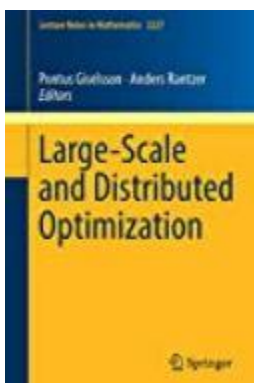
ISBN: 9783030309954

Subjects Terms: Engineering electromagnetics Hydrogen atom Electrostatic potential Static magnetic fields Electromagnetic waves Biot-Savart law

621.37:537.312

175875

[Click here for more details](#)



Large-scale and distributed optimization edited by Pontus Giselsson and Anders Rantzer - Cham Springer 2018 - xiii, 410 p - Lecture notes in mathematics ; 2227

Include bibliography and index

ISBN: 9783319974774

Subjects Terms: Telecommunication | Mathematical optimization | Large-scale optimization | Distributed optimization | Machine learning | Convex optimization

519.2 -LAR

175998

[Click here for more details](#)

[Back to Content](#)



Mathematical analysis for machine learning and data mining by Dan Simovici - Singapore World Scientific 2020 - xv, 968 p. -

Includes bibliography and index (p. 949-968)

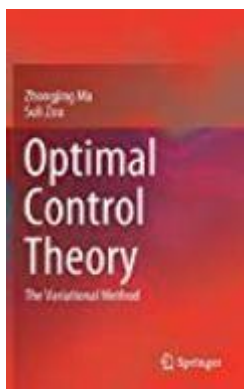
ISBN: 9780000988898

Subjects Terms: Algebraic preliminaries Linear spaces Topology Metric space topologies Integration Banach spaces Hilbert spaces

681.3:517 SIM-M

175897

[Click here for more details](#)



Optimal control theory the variational method by Zhongjing Ma and Suli Zou - Singapore Springer 2021 - xix, 344p. -

Includes bibliography

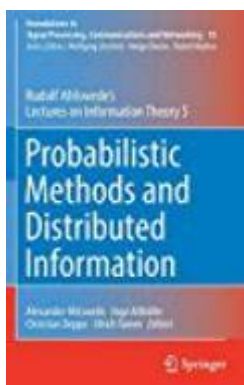
ISBN: 9789813362918

Subjects Terms: Pontryagin's minimum principle Dynamic programming Variational method Differential games Discrete time

519.28 MA-O

175876

[Click here for more details](#)



Probabilistic methods and distributed information rudolf Ahlswede's lectures on information theory 5 edited by Alexander Ahlswede... (et al.) - Cham Springer 2019 - xviii, 581p. - Foundation on signal processing, communication and networking 15

Inlcudes bibliography and index (p. 573-581)

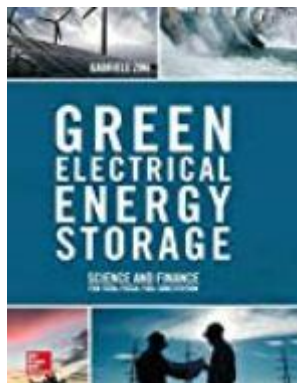
ISBN: 9783030003104

Subjects Terms: Information theory Mathematics Telecommunication Coding theory Arbitrarily Varying Channels Continuous Data Compression Distributed Information

519.21 -PRO

175878

[Click here for more details](#)



Green electrical energy storage science and finance for total fossil fuel substitution by Gabriele Zini - New York McGraw-Hill Education 2016 - li, 280 p. -

Includes bibliography and index (p. 271-280)

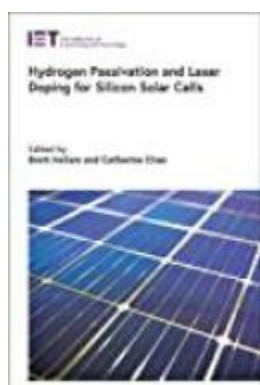
ISBN: 9781259642838

Subjects Terms: Energy storage systems Electrochemical storage Chemical storage Electrical storage Flywheel mechanical storage Energy system storage design

620.9 ZIN-G

176115

[Click here for more details](#)



Hydrogen passivation and laser doping for silicon solar cells edited by Brett Hallam and Catherine Chan - London Institution of Engineering and Technology 2021 - xlii, 471 p. -

Includes bibliography and index (p. 457-473)

ISBN: 9781785616235

Subjects Terms: Silicon solar cells Hydrogen passivation Boron-oxygen Laser doping Solar photovoltaics

621.383.51:546.11 -HYD

175939

[Click here for more details](#)



Industrial plasma technology applications from environmental to energy technologies edited by Yoshinobu Kawai... (et. al) - Hoboken John Wiley & Sons 2010 - xxxi, 434p. -

Includes bibliography and index (p. 425-434)

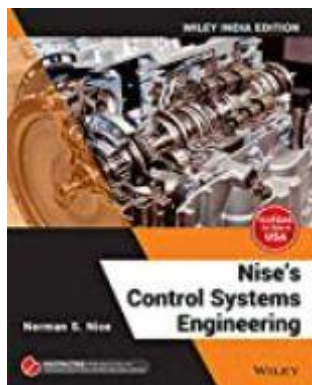
ISBN: 9783527325443

Subjects Terms: Plasma engineering Nonthermal plasam Atmospheric plasma Optical diagnostic Laser investigation Water plasma Bioprocessing

533.9 -IND

176366

[Click here for more details](#)



Nise's control systems engineering by Norman S. Nise - New Delhi
Wiley 2022 - xvi, 919 p. -

Includes bibliography and index (p. 895-919)

ISBN: 9788126571833

Subjects Terms: Automatic control Time response Root locus Digital control system Time domain

621-50 NIS-N

176333

[Click here for more details](#)



Advances in thermal energy storage systems methods and applications
edited by Luisa F. Cabeza - 2nd ed. - Duxford Elsevier 2021 - xxii,
775p. - Woodhead publishing series in energy

Include bibliography and index (p.749-775)

ISBN: 9780128198858

Subjects Terms: Heat storage Power electronics Thermodynamics
Viscosity measurement Thermochemical reactions

620.9 -ADV

176585

[Click here for more details](#)



Control systems engineering by I J Nagrath and M Gopal - 7th ed. -
New Delhi New age international publishers 2022 - xv, 922p. -

Includes bibliography and index (p.899-922)

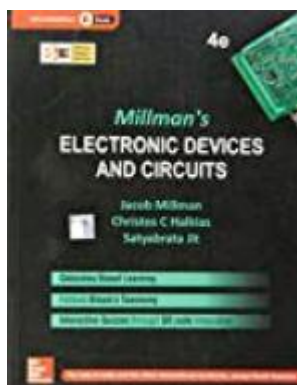
ISBN: 9788195175581

Subjects Terms: Hydraulic systems Frequency analysis Nonlinear systems Optimal control Control systems

621-50 NAG-C

176332

[Click here for more details](#)



Electronic devices and circuits by Jacob Millman, Christos C Halkias and Satyabrata Jit - 4th ed. - Chennai McGraw Hill Education 2015 - xx, 18.22p. -

Includes bibliography and index (p.I1-I5)

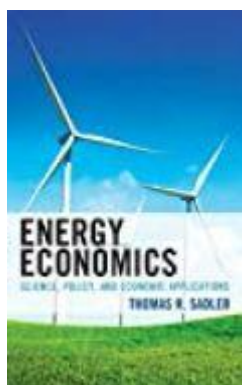
ISBN: 9789339219543

Subjects Terms: Conduction in metals Transistor Integrated circuits Photoelectric devices Amplifiers

621.382 MIL-E

176030

[Click here for more details](#)



Energy economics science, policy, and economic applications by Thomas R. Sadler - Lanham Lexington books 2020 - ix, 367p. -

Includes bibliography and index (p.343-366)

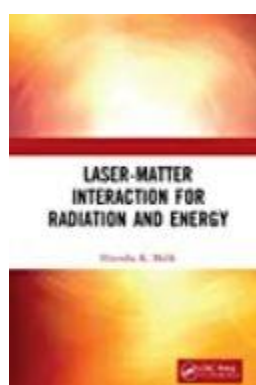
ISBN: 9781498586580

Subjects Terms: Energy resources Nuclear energy Energy security Energy policy Energy supply Energy sectors

620.9 SAD-E

176492

[Click here for more details](#)



Laser-mater interaction for radiation and energy by Hitendra K. Malik - Boca Raton CRC Press 2021 - xxii, 332 p. -

Includes bibliography and index (p. 329-332)

ISBN: 9781138032033

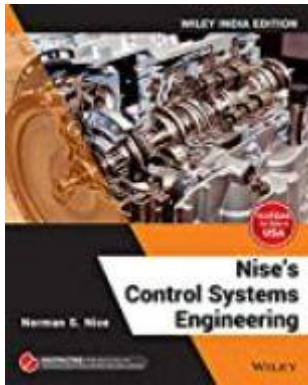
Subjects Terms: Electromagnetic waves Terahertz radiation Surface plasmon resonance X-Ray lasers High harmonic generation Attosecond laser generation Controlled fusion devices

533.951 MAL-L

176315

[Click here for more details](#)

[Back to Content](#)



Nise's control systems engineering by Norman S. Nise - New Delhi Wiley 2022 - xvi, 919 p. -

Includes bibliography and index (p. 895-919)

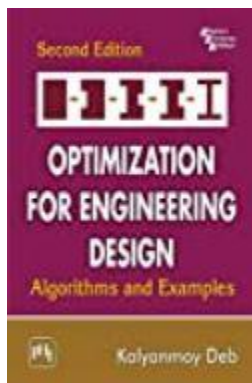
ISBN: 9788126571833

Subjects Terms: Automatic control Time response Root locus Digital control system Time domain

621-50 NIS-N

176656-176659 (TB)

[Click here for more details](#)



Optimization for engineering design algorithms and examples by Kalyanmoy Deb - 2nd ed. - New Delhi PHI Learning Pvt. Ltd. 2021 - xviii, 421p. -

Includes bibliography and index (p. 417-421)

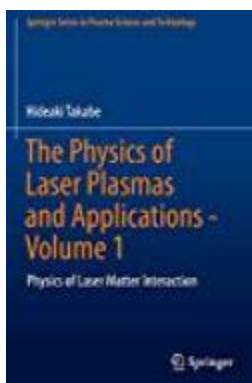
ISBN: 9788120346789

Subjects Terms: Single variable optimization Multivariable optimization algorithms Constrained optimization algorithms Specialized algorithms Nontraditional optimization algorithms

519.28:658.5 DEB-O

176088

[Click here for more details](#)



Physics of laser plasmas and applications physics of laser matter interaction by Hideaki Takabe - Cham Springer 2020 - xix, 384p. - Springer series in plasma science and technology

Includes bibliography

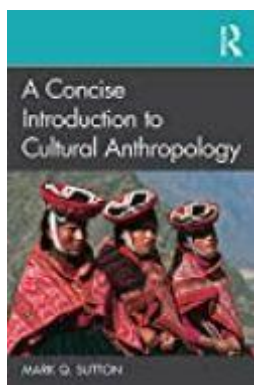
ISBN: 9783030496159

Subjects Terms: Relativistic lasers Stochasticity Collisionless absorption Oscillator Lorentz transformation

537.533 TAK-P

175948

[Click here for more details](#)



Concise introduction to cultural anthropology by Mark Q. Sutton -
London Routledge 2022 - xi, 158p. -

Includes bibliography and index (p.149-158)

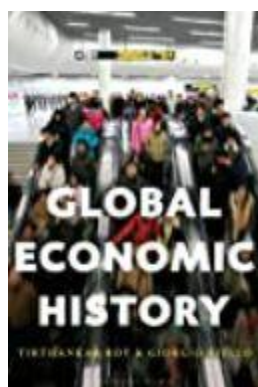
ISBN: 9780367745486

Subjects Terms: Anthropology Anthropological Linguistics Culture
Anthropological methods Anthropological linguistics Kinship
Marriage Applied anthropology

572.026 SUT-C

176406

[Click here for more details](#)



Global economic history edited by Tirthankar Roy and Giorgio Riello
- London Bloomsbury 2019 - xii, 370p. -

Includes bibliography and index (p.360-370)

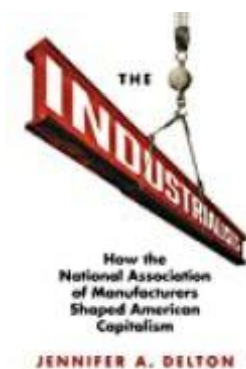
ISBN: 9781472588432

Subjects Terms: World economy Economic change Great divergence
Global commodities Commodity chains

330:94 -GLO

175889

[Click here for more details](#)



Industrialists how the national association of manufacturers shaped
American capitalism by Jennifer A. Delton - Princeton Princeton
University Press 2020 - xi, 342 p. - Politics and society in modern
America

Includes bibliography and index (p. 319-322)

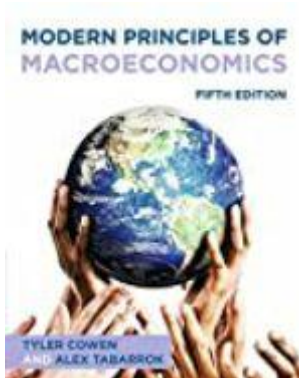
ISBN: 9780691167862

Subjects Terms: Ascent Dominance Decline and recovery Managing
labor Industry improving Expanding trade Fighting unions Postwar
economic order Deindustrialization Global imperative

330.342.14(73) DEL-I

176319

[Click here for more details](#)



Modern principles of macroeconomics by Tyler Cowen and Alex Tabarrok - 5th ed. - New York Worth Publishers 2021 - xxxi, 496 p. -

Includes bibliography and index (p. I-1-I-13)

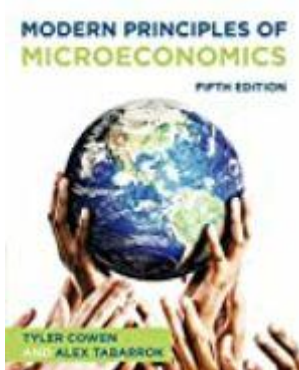
ISBN: 9781319384005

Subjects Terms: Trade Supply and demand Economic growth Fiscal policy Inflation Unemployment Business fluctuations monetary policy Political economy

330.101.541 COW-M

176581

[Click here for more details](#)



Modern principles of microeconomics by Tyler Cowen and Alex Tabarrok - 5th ed. - New York Worth publishers 2021 - xxxii, 516 p. -

Includes bibliography and index (p. I-1-I-13)

ISBN: 9781319384029

Subjects Terms: Supply and demand Price system International trade Monopoly Oligopoly Game theory Labor markets Public goods Public policy Stock markets

330.101.542 COW-M

176582

[Click here for more details](#)



Performing the Ramayana tradition enactments, interpretations and arguments edited by Paula Richman and Rustom Bharucha - New York Oxford University Press 2021 - xviii, 357 p. -

Includes bibliography and index (p. 347-357)

ISBN: 9780197552513

Subjects Terms: Valmiki Ramayana Valmiki adaptations Tulasidasa Ramacaritamanasa Hinduism Religious aspects

233-265.32 -PER

176039-176040 (HSS)

[Click here for more details](#)



South Asian borderlands mobility, history, affect edited by Farhana Ibrahim and Tanuja Kothiyal - Cambridge Cambridge University Press 2021 - x, 285p. -

Includes bibliography and index (p. 275-286)

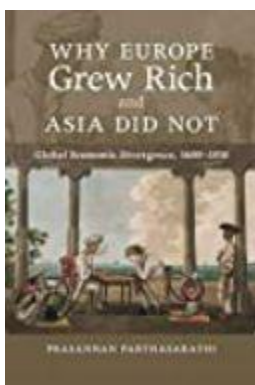
ISBN: 9781108844512

Subjects Terms: Transnationalism Himalaya Mountains Region Boundaries--Social aspects Political Terrain Kashmir Frontiers

94(292.56) -SOU

175981

[Click here for more details](#)



Why Europe grew rich and Asia did not global economic divergence, 1600-1850 by Prasannan Parthasarathi - Cambridge Cambridge University Press 2011 - xv, 365 p. -

Includes bibliography and index (p. 324-365)

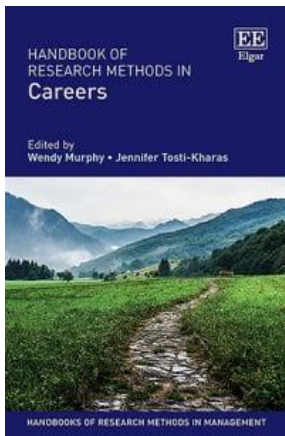
ISBN: 9780521168243

Subjects Terms: Economic development Asia history Europe economic development Britain divergence India economic condition India economic history

330.34(4:5) PAR-W

176009

[Click here for more details](#)



Handbook of research methods in careers edited by Wendy Murphy and Jennifer Tosti-Kharas - Cheltenham Edward elgar publishing 2021 - xxi, 328p. - Handbooks of research methods in management .

Includes bibliography and index (317-328p.)

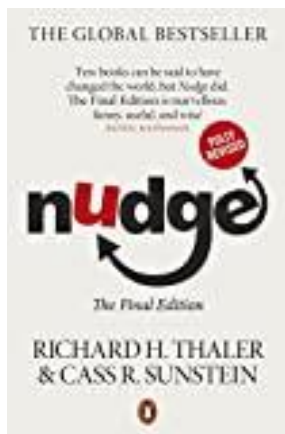
ISBN: 9781788976718

Subjects Terms: Careers research Career decision making Grounded theory - careers research Text mining - careers research Social networks

RL-HB 331.548(021) / -HAN

176683

[Click here for more details](#)



Nudge the final edition - [S.l.] Allen Lane 2021 - xiv, 366p.

Includes bibliography and index (341-366p.)

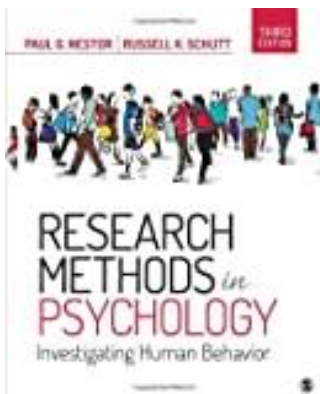
ISBN: 9780241552100

Subjects Terms: Consumer behavior Economics--Psychological aspects Decision making--Psychological aspects Choice (Psychology)-Economic aspects Decision making

330 / THA-N

176684

[Click here for more details](#)



Research methods in psychology investigating human behavior by Paul G. Nestor and Russell K. Schutt - 3rd ed. - Los Angeles Sage publications 2019 - xxviii, 598p.

Includes bibliography and index (560-598p.)

ISBN: 9781544323770

Subjects Terms: Behavioral research Research design Sampling Methods Correlational Research Experimental Designs Psychology - Research Human Behaviour

159.9.07 / NES-R

176680

[Click here for more details](#)



Secret of our success how culture is driving human evolution, domesticating our species, and making us smarter by Joseph Henrich - Princeton University Press 2017 - xv, 445p.

Includes bibliography and index (373-445p.)

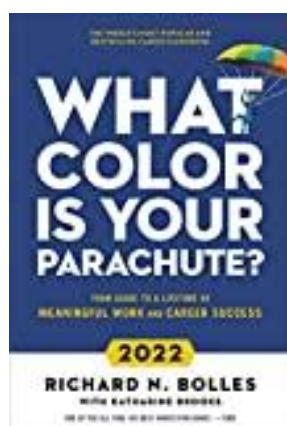
ISBN: 9780691178431

Subjects Terms: Human evolution Social evolution Behavior evolution Cognition and culture Human beings

575.8 / HEN-S

176682

[Click here for more details](#)



What color is your parachute? 2022 your guide to a lifetime of meaningful work and career success by Richard N. Bolles - California Ten Speed Press 2021 - 343p.

Includes bibliography and index (334-343p.)

ISBN: 9781984860347

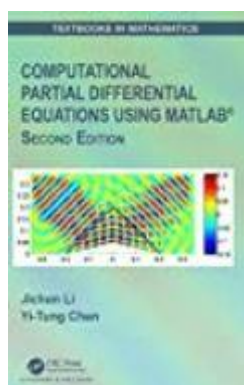
Subjects Terms: Job search Flower exercise Job interview Salary negotiation Resume

331.548 / BOL-W

176681

[Click here for more details](#)

Mathematics



Computational partial differential equations using MATLAB® by Jichun Li and Yi-Tung Chen - 2nd ed. - Boca Raton CRC Press 2020 - xiii, 408p. - Textbooks in mathematics 12

Includes bibliography and index (p. 405-408)

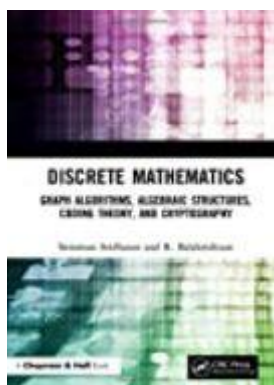
ISBN: 9780367217747

Subjects Terms: Applied mathematics Differential equations Parabolic equations Hyperbolic equations Elliptic equations MATLAB Electromagnetics Finite difference methods

517.951:681.3.06M LI-C

176327

[Click here for more details](#)



Discrete mathematics graph algorithms, algebraic structures, coding theory, and cryptography by Sriraman Sridharan and R. Balakrishnan - Boca Raton CRC Press 2020 - xxv, 313 p. -

Includes bibliography and index (p. 307-313)

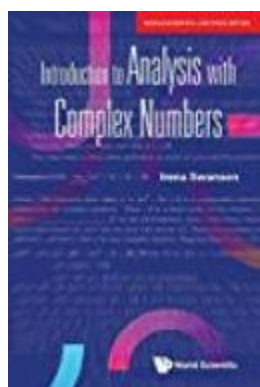
ISBN: 9780815347392

Subjects Terms: Mathematics Computer science Vector spaces Finite fields Graph algorithms Algebraic structures Coding theory Cryptography

512.817 SRI-D

176078

[Click here for more details](#)



Introduction to analysis with complex numbers by Irena Swanson - Singapore World Scientific Publishing 2022 - xii, 442 p. -

V.45Includes bibliography and index (p. 433-442)

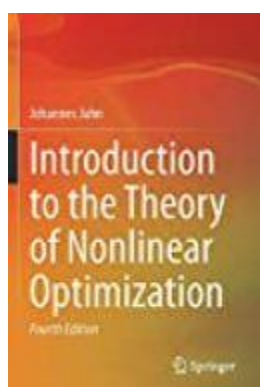
ISBN: 9781944660086

Subjects Terms: Summation Pascal's triangle Binary operations Real numbers Differentiation Integration Trigonometric functions

517:511.11 SWA-I

176329

[Click here for more details](#)



Introduction to the theory of nonlinear optimization by Johannes Jahn - 4th ed. - Cham Springer 2020 - x, 323 p. -

Includes bibliography and index (p. 309-323)

ISBN: 9783030427627

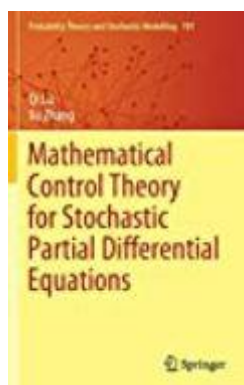
Subjects Terms: Calculus of variations Control theory Optimization theory Approximation theory Linear optimization Tangent cones

519.863 JAH-I

176313

[Click here for more details](#)

[Back to Content](#)



Mathematical control theory for stochastic partial differential equations by Qi Lu and Xu Zhang - Cham Springer 2021 - xiii, 592 p. - Probability theory and stochastic modelling 101

Includes bibliography and index (p. 567-592)

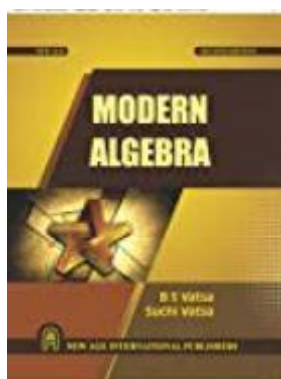
ISBN: 9783030823306

Subjects Terms: Stochastic calculus Stochastic differential equations Stochastic evolution equations Stochastic distributed parameter Stochastic transport equations Stochastic wave equation Schrodinger equations

519.216:517.977 LU-M

176323

[Click here for more details](#)



Modern algebra by B S Vatsa and Suchi Vatsa - 2nd ed. - New Delhi New Age International Publishers 2010 - xiv, 464p. -

Includes bibliography and index (p. 459-464)

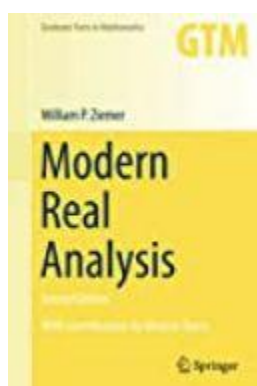
ISBN: 9788122425802

Subjects Terms: Set theory Group theory Homomorphisms Ring theory Polynomial rings Vector spaces Linear programming Field theory Galois theory

512 VAT-M

176455

[Click here for more details](#)



Modern real analysis by William P. Ziemer - 2nd ed. - Cham Springer 2017 - xi, 382p. - Graduate texts in mathematics 278

Includes bibliography and index (p.375-382)

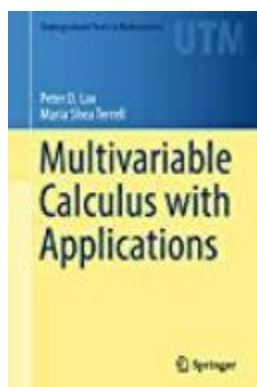
ISBN: 9783319646282

Subjects Terms: Real variables Mathematical analysis Cardinal numbers Elements of topology Measure theory Integration Differentiation Distribution

517.51 ZIE-M

176079

[Click here for more details](#)



Multivariable calculus with applications by Peter D. Lax and Maria Shea Terrell - Cham Springer 2017 - viii, 483 p. - Undergraduate texts in mathematics

Includes bibliography and index (p. 477-483)

ISBN: 9783319740720

Subjects Terms: Multivariate analysis Mathematics Mathematical analysis Engineering mathematics Differentiation Integration

517 LAX-M

176080

[Click here for more details](#)



Uncertain data envelopment analysis by Meilin Wen - New York Springer 2015 - xi, 149 p. -

Include bibliography and index

ISBN: 9783662525814

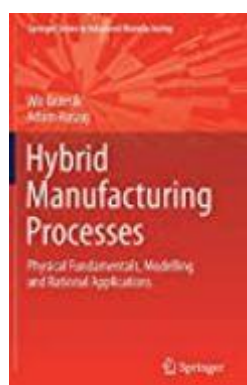
Subjects Terms: Congestion analysis Credibility variable Fuzzy simulation Genetic algorithm Random variable Ranking criteria Stochastic DEA

519.2 WEN-U

176103

[Click here for more details](#)

Mechanical Engineering



Hybrid manufacturing processes physical fundamentals, modelling and rational applications by Wit Grzesik and Adam Ruszaj - Cham Springer 2021 - xx, 234p. - Springer series in advanced manufacturing

Includes bibliography

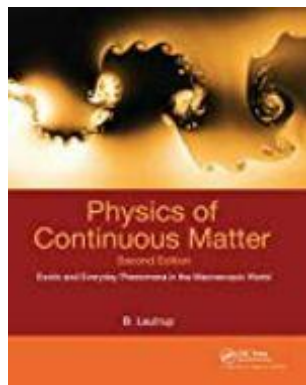
ISBN: 9783030771065

Subjects Terms: Material shaping Hybrid machining Vibration assisted machining Media assisted machining Thermally assisted machining

621.7/.9 GRZ-H

175901

[Click here for more details](#)



Physics of continuous matter exotic and everyday phenomena in the macroscopic world by B Lautrup - 2nd ed. - Boca Raton CRC Press 2019 - xii, 684 p. -

Includes bibliography and index (p. 665-684)

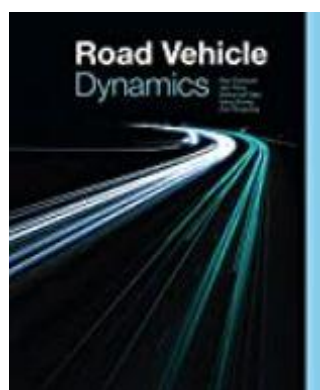
ISBN: 9780367865115

Subjects Terms: Field theory Fluids at rest Surface tension Solids at rest Computational elastostatics Fluids in motion Fluid Dynamics Elastic vibrations Gravity waves

530.145 LAU-P

176672

[Click here for more details](#)



Road vehicle dynamics by Dukkupati, Rao V... (et al.) - Warrendale SAE International 2008 - xxii, 852 p. -

Includes bibliography and index (p. 833-847)

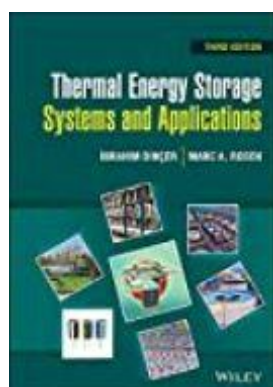
ISBN: 9780768016437

Subjects Terms: Dynamic system Vibration system Lagrange's equation Gaussian random process Tire dynamics Ride dynamics Vehicle ride models

629.3.015 -ROA

176290-176291 (ME)

[Click here for more details](#)



Thermal energy storage systems and applications by Ibrahim Dincer and Marc A. Rosen - 3rd ed. - New Jersey John Wiley 2021 - xvii, 653 p. -

Includes bibliography and index (p. 649-653)

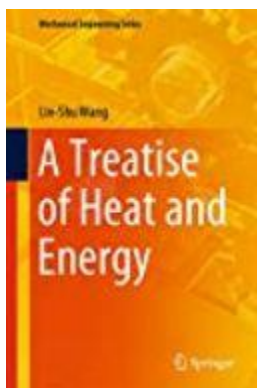
ISBN: 9781119713159

Subjects Terms: Heat storage Thermodynamics Energy storage Solar energy Exergy analysis

620.9 DIN-T

175903-175904 (SPP)

[Click here for more details](#)



Treatise of heat and energy by Lin-Shu Wang - Cham Springer 2020 - xx, 301 p. - Mechanical engineering series

Includes bibliography and index (p. 299-301)

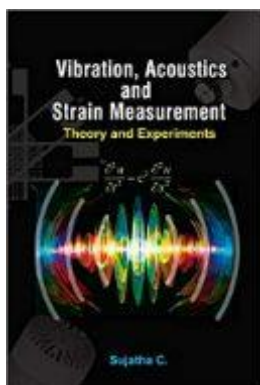
ISBN: 9783030057459

Subjects Terms: Calorimetry Caloric theory of heat Force and energy Carnot's theory of heat Gibbsian thermodynamics Engineering thermodynamics

536:620.9 WAN-T

176331

[Click here for more details](#)



Vibration, acoustics and strain measurement theory and experiments by C. Sujatha - New Delhi Ane Books 2021 - xxi, 800 p. -

Includes bibliography and index (p. 787-800)

ISBN: 9789389212808

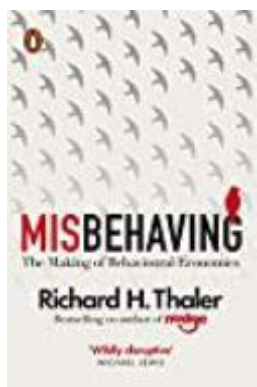
Subjects Terms: Theory of vibration Generation of vibration Fundamentals of acoustics Stress analysis Signal analysis Strain gauge

534:621.9.011 SUJ-V

176263

[Click here for more details](#)

Management Studies



Misbehaving the making of behavioral economics by Richard H. Thaler - London Allen Lane 2016 - xiv, 415p. -

Includes bibliography and index (p.373-415)

ISBN: 9780241951224

Subjects Terms: Economics Mental accounting Finance

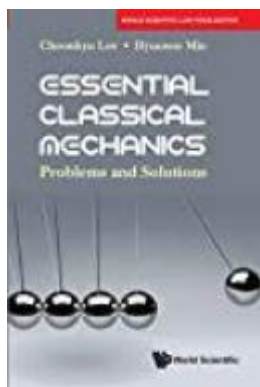
330.16 THA-M

176601

[Click here for more details](#)

[Back to Content](#)

Physics



Essential classical mechanics problems and solutions by Choonkyu Lee and Hyunsoo Min - Singapore World Scientific 2020 - vii, 497p. -

Include bibliography and index

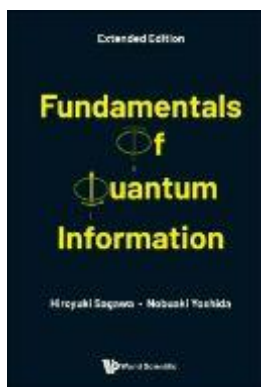
ISBN: 9780000988621

Subjects Terms: Three-dimensional space One-dimensional motion
Gravitational field equation Rigid body dynamics Lagrangian
mechanics

531 LEE-E

176074-176075 (TB)

[Click here for more details](#)



Fundamentals of quantum information by Hiroyuki Sagawa and Nobuaki Yoshida - Singapore World Scientific 2021 - xiv, 296p. -

Includes bibliography and index (p. 291-296)

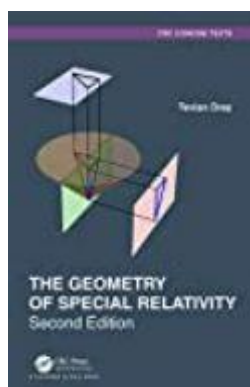
ISBN: 9789811227219

Subjects Terms: Quantum computers Quantum theory Quantum
mechanics Quantum gates Number theory

530.145 SAG-F

176105-176106 (TB)

[Click here for more details](#)



Geometry of special relativity by Tevian Dray - 2nd ed. - Boca Raton
CRC Press 2021 - xxi, 174 p. - Textbooks in mathematics

Includes bibliography and index (p. 169-174)

ISBN: 9781138063921

Subjects Terms: Newton's relativity Einstein's relativity Circle
geometry Hyperbola geometry Geometry of special relativity
Relativistic mechanics

530.12:514 DRA-G

176330

[Click here for more details](#)



Imagining imaging by Michael R. Jackson - Boca Raon CRC Press
2022 - xiii, 257p. -

Includes bibliography and index

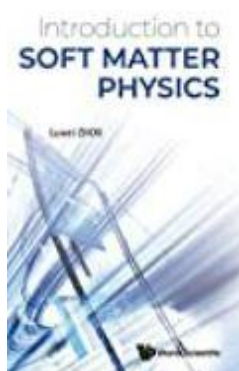
ISBN: 9780367427825

Subjects Terms: Art Artefact Artifice Maps Mirrors Similies
Symbolism

616-073.7 JAC-I

176107

[Click here for more details](#)



Introduction to soft matter physics by Luwei Zhou - New Jersey World
scientific 2019 - xxxii, 320p. -

Includes bibliography

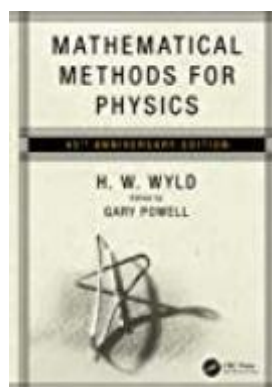
ISBN: 9789813275096

Subjects Terms: Hydrodynamic interaction Light scattering
Electrorheological effect Grain segregation Onsager principle

532 ZHO-I

176099

[Click here for more details](#)



Mathematical methods for physics by H. W. Wyld; edited by Gary
Powell - 45th anniversary ed. - Boca Raton CRC Press 2021 - xxiii,
451 p. -

Includes bibliography and index (p. 443-451)

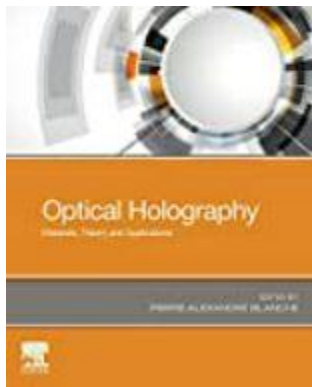
ISBN: 9780367477080

Subjects Terms: Mathematical physics Differential equations Spherical
harmonics Green's functions Integral equations Complex variables

53:51 WYL-M

175854

[Click here for more details](#)



Optical holography materials, theory and applications edited by Pierre-Alexandre Blanche - Missouri Elsevier 2020 - ix, 212p. -

Includes bibliography and index (p.205-212)

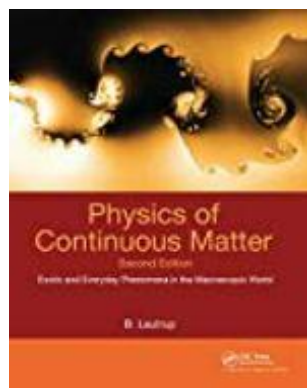
ISBN: 9780128154670

Subjects Terms: Computer holograms 3D television Solar concentration Non-destructive testing Holographic Interferometry Sensor

535.4 -OPT

175919

[Click here for more details](#)



Physics of continuous matter exotic and everyday phenomena in the macroscopic world by B Lautrup - 2nd ed. - Boca Raton CRC Press 2019 - xii, 684 p. -

Includes bibliography and index (p. 665-684)

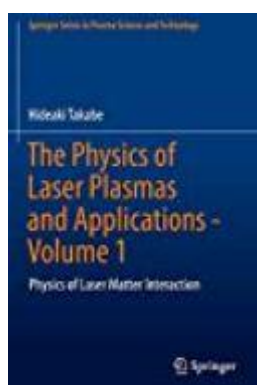
ISBN: 9780367865115

Subjects Terms: Field theory Fluids at rest Surface tension Soilds at rest Computational elastostatics Fluids in motion Fluid Dynamics Elastic vibrations Gravity waves

530.145 LAU-P

176153-176154 (PH)

[Click here for more details](#)



Physics of laser plasmas and applications physics of laser matter interaction by Hideaki Takabe - Cham Springer 2020 - xix, 384p. - Springer series in plasma science and technology

Includes bibliography

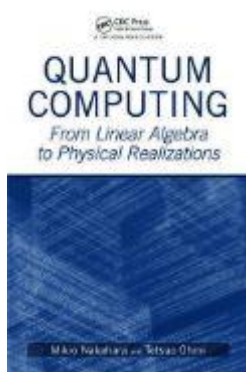
ISBN: 9783030496159

Subjects Terms: Relativistic lasers Stochasticity Collisionless absorption Oscillator Lorentz transformation

537.533 TAK-P

175947

[Click here for more details](#)



Quantum computing from linear algebra to physical realizations by Mikio Nakahara and Tetsuo Ohmi - Boca Raton CRC Press 2017 - xvi, 421p. -

Includes bibliography and index (p. 417-421)

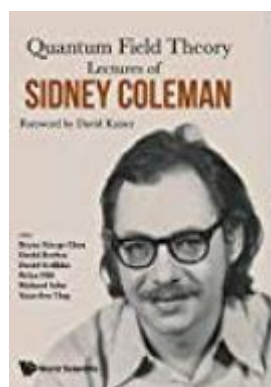
ISBN: 9781138627284

Subjects Terms: Vectors and matrices Quantum mechanics Quantum gates Quantum circuit Quantum algorithm Quantum integral transforms Grover's search

530.145:681.3 NAK-Q

176082

[Click here for more details](#)



Quantum field theory lectures of Sidney Coleman edited by Bryan Gin-ge Chen.. (et al.) - Singapore World Scientific 2019 - xvi, 1152p. -

Includes bibliography and index (p. 1119-1152)

ISBN: 9789814635509

Subjects Terms: Quantum mechanics Particle theory Scalar quantum field Perturbation theory Mandelstam variables Heisenberg fields

530.145 -QUA

175924

[Click here for more details](#)



Spintronic 2D materials fundamentals and application edited by Wenqing Liu and Yongbing Xu - Amsterdam Elsevier 2020 - xiii,306 -

Includes bibliography and index (p. 299-306)

ISBN: 9780081021545

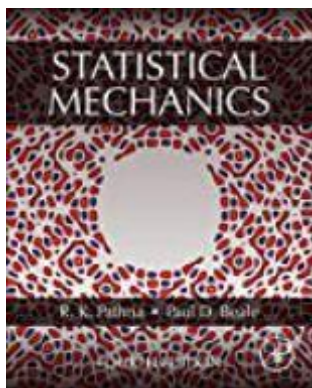
Subjects Terms: Ferromagnetism Spintronics Two-dimensional systems Magnetic properties Spin-valve effect Rashba spin-orbit coupling

621.382 -SPI

176026

[Click here for more details](#)

[Back to Content](#)



Statistical mechanics by R.K. Pathria and Paul D. Beale - 4th ed. -
London Academic Press 2022 - xxx, 738p. -

Includes bibliography and index (p.711-738)

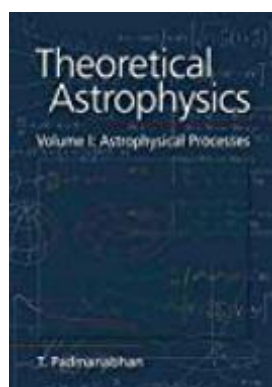
ISBN: 9780081026922

Subjects Terms: Ideal fermi systems Ideal bose systems Computer simulations Quantum statistics Thermodynamics

531.01 PAT-S

175896

[Click here for more details](#)



Theoretical astrophysics volume I: astrophysical processes by T. Padmanabhan - New Delhi Cambridge University Press 2010 - xix, 601 p. -

Includes bibliography and index (p. 593-601)

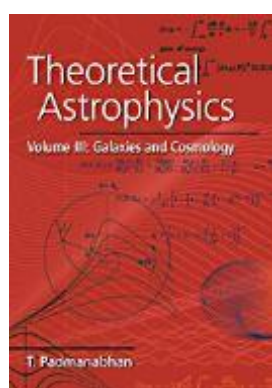
ISBN: 9781107400597

Subjects Terms: Radiative processes Photons Dynamics Special relativity Electrodynamics Electromagnetic radiation Spectra Neutral fluids Plasma physics Gravitational dynamics Theory of relativity Nuclear physics

52 PAD-T

176032

[Click here for more details](#)



Theoretical astrophysics volume III: galaxies and cosmology by T. Padmanabhan - New Delhi Cambridge University Press 2010 - xvii, 619 p. -

Includes bibliography and index (p. 609-619)

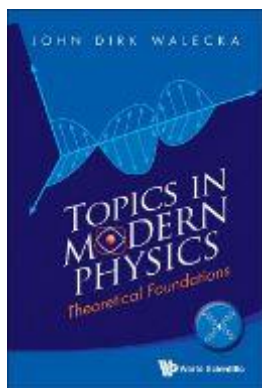
ISBN: 9781107400610

Subjects Terms: Galactic structure Dynamics Friedmann model of the universe Thermal history of the universe Cosmic microwave Baryonic structures Galactic nuclei Cosmological observations

52 PAD-T

176085

[Click here for more details](#)



Topics in modern physics theoretical foundations by John Dirk Walecka - New Jersey World Scientific 2021 - xviii, 480p. -

Includes bibliography and index (p. 457-480)

ISBN: 9780000990020

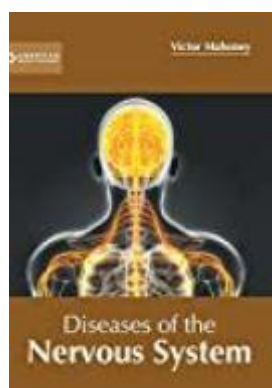
Subjects Terms: Quantum mechanics Quantum field theory Quantum chromodynamics Classical mechanics Scattering theory Electromagnetic radiation Quantum electrodynamics

53 WAL-T

176076

[Click here for more details](#)

School of Biological Science



Diseases of the nervous system edited by Victor Mahoney - New York American Medical Publishers 2021 - ix, 199p. -

Includes bibliography and index (p. 198-199)

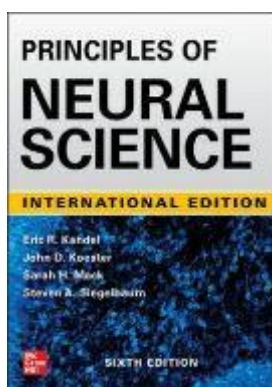
ISBN: 9781639272921

Subjects Terms: Cerebral palsy Classical fabry disease Dementia Paradoxical herniation Electrocardiography Intracranial

616.8 -DIS

176529

[Click here for more details](#)



Principles of neural science by Kandel, Eric R... (et al.) - New York Mc Graw Hill 2021 - xlix, 1646 p. -

Includes bibliography and index (p. 1583-1646)

ISBN: 9781264267682

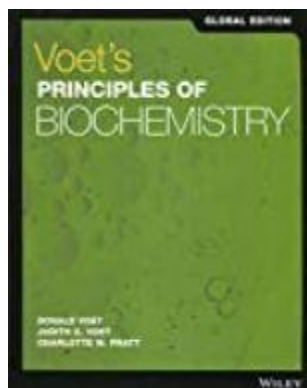
Subjects Terms: Neurolog Neurons Neurosciences Neurophysiology Neuropsychology Neurochemistry Nervous system

612.82 -PRI

176299-176300 (SBS)

[Click here for more details](#)

[Back to Content](#)



Voet's principles of biochemistry by Donald Voet, Judith G. Voet and Charlotte W. Pratt - 5th ed. - New Jersey Wiley 2016 - xvi, 1098p. -

Includes bibliography and index (p.I-1-I-36)

ISBN: 9781119451662

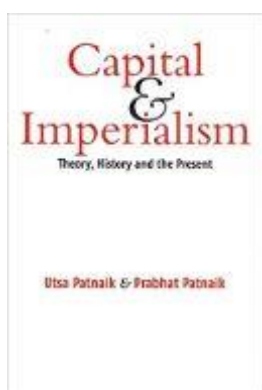
Subjects Terms: Biomolecules Enzymes Metabolism Photosynthesis Fermentation

577.1 VOE-P

176556-176557 (SBS)

[Click here for more details](#)

School of Public Policy



Capital and imperialism theory, history, and the present by Utsa Patnaik and Prabhat Patnaik - New Delhi Tulika Books 2021 - x, 381 p. -

Includes bibliography and index (p. 353-381)

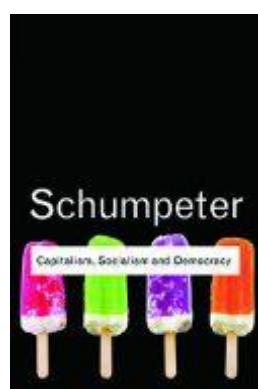
ISBN: 9788194717591

Subjects Terms: Money using Marxian system Capitalism Colonialism Public policy

330.342.14 PAT-C

176000-176001 (SPP)

[Click here for more details](#)



Capitalism, socialism and democracy by Joseph A. Schumpeter - Abingdon Routledge 2022 - xiv, 442 p. -

Includes bibliography and index (p. 437-442)

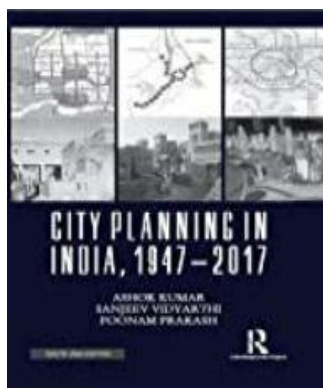
ISBN: 9781032160801

Subjects Terms: Marxian doctrine Capitalism survive Socialist parties Monopolistic practices Civilization of capitalism

321.74 SCH-C

176002-176003 (SPP)

[Click here for more details](#)



City planning in India, 1947-2017 by Ashok Kumar, Sanjeev Vidyarthi and Poonam Prakash - Abingdon Routledge 2021 - xiv, 399 p. -

Includes bibliography and index (p. 363-399)

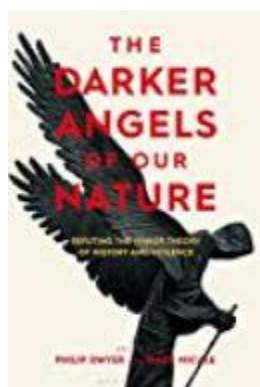
ISBN: 9781032045900

Subjects Terms: Urban planning Town planning Urban development City development City architecture

711.433(540) ASH-C

175993-175994 (SPP)

[Click here for more details](#)



Darker angels of our nature refuting the pinker theory of history and violence edited by Philip Dwyer and Mark Micale - London Bloomsbury 2022 - xv, 393p. -

Includes bibliography and index (p. 337-393)

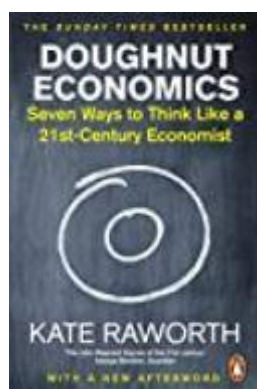
ISBN: 9781350140592

Subjects Terms: Interpretations Inner demons Pinker Violence Historiography Psychology

316.485.22 -DAR

176091

[Click here for more details](#)



Doughnut economics seven ways to think like a 21st-century economist by Kate Raworth - London Random House Business Books 2018 - viii, 372p. -

Includes bibliography and index (p. v333-372)

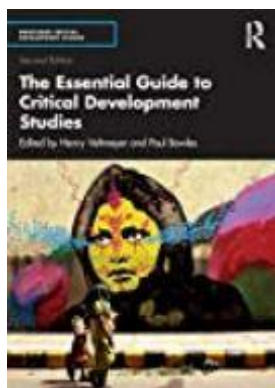
ISBN: 9781847941398

Subjects Terms: Economic forecasting Sustainable development Economic development Self-contained market Embedded economy

330 RAW-D

176493-176494 (SPP)

[Click here for more details](#)



Essential guide to critical development studies edited by Henry Veltmeyer and Paul Bowles - 2nd ed. - Abingdon Routledge 2022 - xxix, 412 p. -

Includes bibliography and index (p. 405-412)

ISBN: 9780367478858

Subjects Terms: Economic development Development economics
Social change Development theory Critiques of development

330.34 -ESS

176021-176022 (SPP)

[Click here for more details](#)



Games real actors play actor-centered institutionalism in policy research by Fritz W. Scharpf - New York Routledge 1997 - xvi, 318 p.

Includes bibliography and index (p. 281-318)

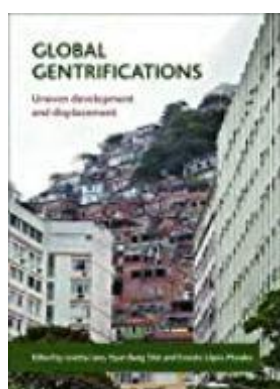
ISBN: 9780813399683

Subjects Terms: Policy research Actor constellations Unemployment
Policy networks Anarchic fields

334.02 SCH-G

176023-176024 (SPP)

[Click here for more details](#)



Global gentrifications uneven development and displacement edited by Loretta Lees, Hyun Bang Shin and Ernesto Lopez-Morales - Bristol Policy Press 2015 - xv, 468p. -

Includes bibliography and index (p. 457-468)

ISBN: 9781447313489

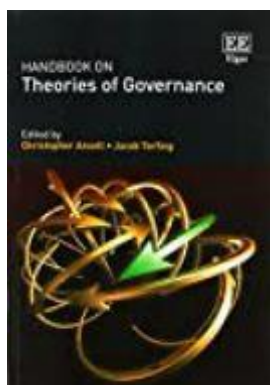
Subjects Terms: Gentrification Urban renewal Social aspects Urban
geography Real estate

316.334.56 -GLO

176119-176120 (SPP)

[Click here for more details](#)

[Back to Content](#)



Handbook on theories of governance edited by Christopher Ansell and Jacob Torfing - Cheltenham Edward Elgar Publishing 2017 - xiii, 578 p. -

Includes bibliography and index (p. 561-578)

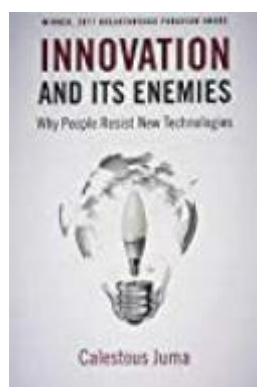
ISBN: 9781788117654

Subjects Terms: Collective action theory- Handbooks, manuals, etc. Organization theory- Handbooks, manuals, etc. Public management theory- Handbooks, manuals, etc. Planning theory- Handbooks, manuals, etc. State theory- Handbooks, manuals, etc. Democratic theory- Handboo

35(021) -HAN

176128

[Click here for more details](#)



Innovation and its enemies why people resist new technologies by Calestous Juma - New York Oxford University Press 2019 - xii, 416p. -

Includes bibliography and index (p. 371-416)

ISBN: 9780190051600

Subjects Terms: Technological innovations Technology--Social aspects Technology and civilization Technology history Public welfare Policy challenges

005.591.6 JUM-I

176498

[Click here for more details](#)



Institutions, institutional change and economic performance by Douglass C. North - Cambridge Cambridge University Press 1990 - viii, 152 p. -

Includes bibliography and index (p. 141-152)

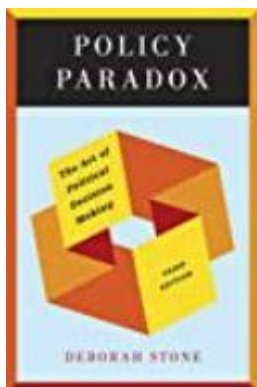
ISBN: 9780521397346

Subjects Terms: Economic theory Economic history Capital market Entrepreneurs Macroeconomics Political economy

330.1 NOR-I

175985-175986 (SPP)

[Click here for more details](#)



Policy paradox the art of political decision making by Deborah Stone - 3rd ed. - New York WW Norton 2012 - viii, 408 p. -

Includes bibliography and index (p. 393-408)

ISBN: 9780393912722

Subjects Terms: Policy science Political planning Decision making Public policy Welfare

334.02:32 STO-P

176006-176007 (SPP)

[Click here for more details](#)



Politics of knowledge in inclusive development and innovation edited by David Ludwig... (et al.) - Abingdon Routledge 2022 - xxi, 291 p. - Pathways to sustainability 2

Includes bibliography and index (p. 283-291)

ISBN: 9780367632250

Subjects Terms: Knowledge management Technological innovations Sustainability Economic development Governing knowledge Digitalisation

330.34:005.591.6 -POL

176288

[Click here for more details](#)



Renewable energy finance theory and practice by Santosh Raikar and Seabron Adamson - London Academic Press 2020 - xvi, 282p. -

Includes bibliography and index (p.275-282)

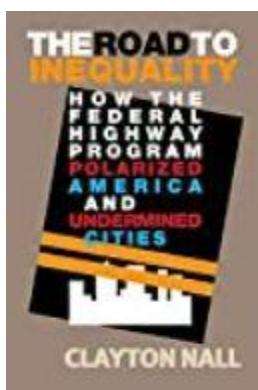
ISBN: 9780128164419

Subjects Terms: Distributed Energy Technologies Transmission Markets Power resources Environmental economics Mines and mineral resources Clean energy industries--Finance Renewable energy sources--Finance Clean energy investment

620.91:336 RAI-R

176016

[Click here for more details](#)



Road to inequality how the federal highway program polarized america and undermined cities by Clayton Nall - Cambridge University Press 2018 - xvii, 170 p. -

Includes bibliography and index (p. 148-170)

ISBN: 9781108405492

Subjects Terms: Political geography Geographic sorting Metropolitan Transportation Human geography Cultural geography

911.3:32(73) NAL-R

175987-175988 (SPP)

[Click here for more details](#)



Routledge handbook of comparative policy analysis edited by Marleen Brans, Iris Geva-May and Michael Howlett - Abingdon Routledge 2019 - xiii, 401p. -

Includes bibliography and index (p. 377-401)

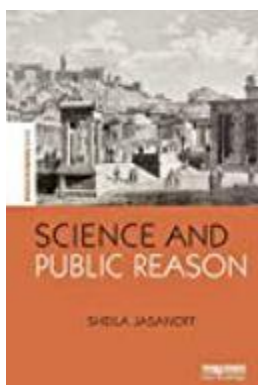
ISBN: 9780367872656

Subjects Terms: Public policy- Handbook, manuals, etc. Policy analysis- Handbook, manuals, etc. Public inquiries- Handbook, manuals, etc. Advocacy-based policy- Handbook, manuals, etc. Academic policy- Handbook, manuals, etc.

RL-HB 338.2 - ROU

175945-175946 (SPP)

[Click here for more details](#)



Science and public reason by Sheila Jasanoff - Abingdon Routledge 2013 - xvi, 286 p. -

Includes bibliography and index (p. 282-286)

ISBN: 9780415624688

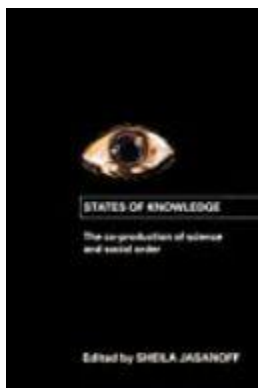
Subjects Terms: Democracy Political culture Environmental consciousness Citizen participation Sociology of science

342.57 JAS-S

176013-176014 (SPP)

[Click here for more details](#)

[Back to Content](#)



States of Knowledge the co-production of science and social order
edited by Sheila Jasanoff - Abingdon Routledge 2006 - xii, 317 p. -
Includes bibliography and index (p. 283-317)

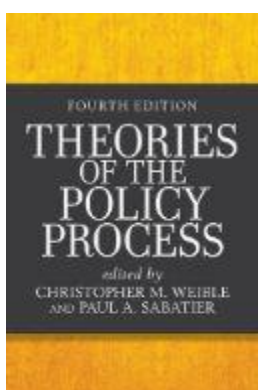
ISBN: 9780415403290

Subjects Terms: Political order Climate science Moral order Science
of merit Mental order

323.2:5 -STA

176067-176068 (SPP)

[Click here for more details](#)



Theories of the policy process edited by Christopher M. Weible and
Paul A. Sabatier - 4th ed. - New York Routledge 2017 - ix, 402 p. -

Includes bibliography and index (p. 387-402)

ISBN: 9780367086213

Subjects Terms: Policy framework Policy research Policy feedback
theory Policy making IAD farmework

334.02 -THE

175989-175990 (SPP)

[Click here for more details](#)



West Bengal under the left 1977-2011 edited by Rakhabari Chatterji
and Partha Pratim Basu - Kolkata Levant Books 2018 - vi, 321 p. -

Includes bibliography and index (p. 313-321)

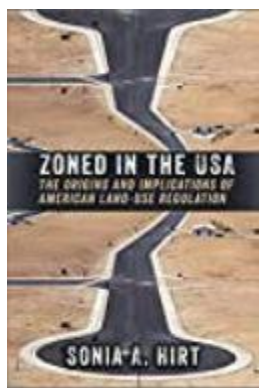
ISBN: 9788193603659

Subjects Terms: Left party Politics Parties Policis Society Women
community Civil social initiatives

329.051(540.33) -WES

175991-175992 (SPP)

[Click here for more details](#)



Zoned in the USA the origins and implications of American land-use regulation by Sonia A. Hirt - Ithaca Cornell University Press 2014 - x, 245 p. -

Includes bibliography and index (p. 207-245)

ISBN: 9780801479878

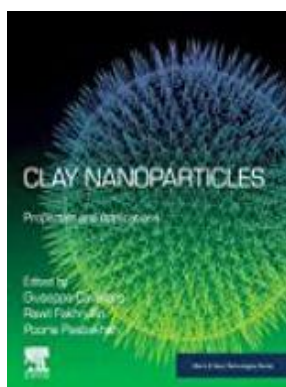
Subjects Terms: Land use - US City planning Housing trademark American zoning Residential zoning

332.3 HIR-Z

176027-176028 (SPP)

[Click here for more details](#)

Textile & Fibre Engineering



Clay nanoparticles properties and applications edited by Giuseppe Cavallaro, Rawil Fakhruddin, and Pooria Pasbakhsh - Amsterdam Elsevier 2020 - xv, 352p. -

Includes bibliography and index (p.326-352)

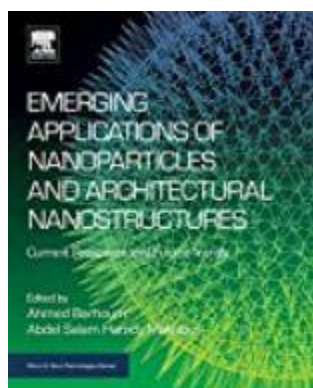
ISBN: 9780128167830

Subjects Terms: Nanostructured materials Nanoclays Tubular clay minerals Geopolymers Bionanocomposites Sustainable polymers Halloysite nanotubes Colloidal stabilit

553.61 -CLA

175883

[Click here for more details](#)



Emerging applications of nanoparticles and architectural nanostructures current prospects and future trends edited by Ahmed Barhoum and Abdel Salam Hamdy Makhlouf - Amsterdam Elsevier 2018 - xviii, 628p. -

Includes bibliography and index (p. 621-628)

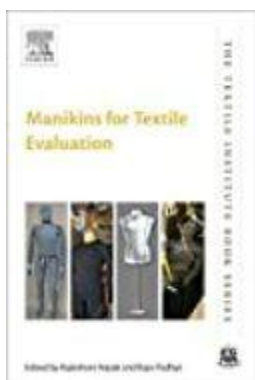
ISBN: 9780323512541

Subjects Terms: Architectural models Nanostructured oxides Lithography Nano coatings Biomedical implants Physiochemical Nanofabrication

620.3 -EME

175953

[Click here for more details](#)



Manikins for textile evaluation edited by Rajkishore Nayak and Rajiv Padhye - Duxford Elsevier 2017 - xii, 404 p. - Textile institute book series

Includes bibliography and index (p. 387-404)

ISBN: 9780081009093

Subjects Terms: Manikin types Visual merchandising Selection of manikins Future trends Clothes manikins Human anthropometrics Body shape evaluation

677.05 -MAN

175882

[Click here for more details](#)



Plastics microstructure and engineering applications by Nigel Mills, Mike Jenkins and Stephen Kukureka - 4th ed. - Oxford Elsevier 2020 - xi, 324p. -

Includes bibliography and index (p.315-324)

ISBN: 9780081024997

Subjects Terms: Viscoelastic Amorphous polymers Yielding Creep design Transport properties

678 MIL-P

175952

[Click here for more details](#)



Radio frequency identification (RFID) technology and application in fashion and textile supply chain by Rajkishore Nayak - Boca Raton CRC Press 2019 - xix, 165 p. - Textile institute professional publications series

Includes bibliography and index (p. 159-165)

ISBN: 9780815376231

Subjects Terms: RFID in fiber production RFID in yarn manufacturing RFID in fabric manufacturing Applications of RFID RFID in fashion logistics RFID in fashion retail RFID technology

677:621.396 NAY-R

176025; 176069 (TT)

[Click here for more details](#)



Sustainability in the textile and apparel industries sourcing synthetic and novel alternative raw materials edited by Subramanian Senthilkannan Muthu and Miguel Angel Gardetti - Cham Springer 2020 - viii, 200 p.

-

Includes bibliography and index (p. 195-200)

ISBN: 9783030380151

Subjects Terms: Textile materials Textiles - Sustainability Ethical materials Cotton wastes Textiles fibers synthetic fibres

677 MUT-S

175852

[Click here for more details](#)

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

[Back to Content](#)

THESIS COLLECTIONS

Title	Thermomechanical processing and deformation behavior of binary Mg-Y alloys with varied Y concentration
Researcher	Nooruddin Ansari
Department	Department of Materials Science and Engineering, IITD
Year	2021
Supervisor	Jain, Jayant (Assoc. Prof.) - MSE
Physical description	xxviii, 179p.
Subject terms	Magnesium Crystallography of Magnesium Materials processing Metallography Optical microscopy
Barcode	TH6620
Call No.	TH 669.721:669.794 ANS-T
Title	Some studies on quantification and fusion of differential information
Researcher	Snigdha Bhagat
Department	Department of Electrical Engineering, IITD
Year	2021
Supervisor	Joshi, S.D. (Prof.) - EE Lal, Brejesh (Prof.) - EE
Physical description	xiv, 192p.
Subject terms	Information fusion Multi modal image fusion Matrix pencil Residual networks Image super resolution
Barcode	TH6621
Call No.	TH 621.391.8 BHA-S
Title	Matching and its variations
Researcher	Juhi Chaudhary
Department	Department of Mathematics, IITD
Year	2021
Supervisor	Panda, Bhawani Shankar (Prof.) - MA
Physical description	xx, 247p.
Subject terms	Induced matching Acyclic matching Restricted matching Graph theory Matched edges
Barcode	TH6622
Call No.	TH 519.17 CHA-M

Title	Existence and regularity results for some elliptic and parabolic problems involving non-homogeneous operators
Researcher	Deepak Kumar
Department	Department of Mathematics, IITD
Year	2021
Supervisor	Sreenadh, K. (Prof.) - MA
Physical description	xi, 184p.
Subject terms	Sobolev Holder regularity Fractional problems Parabolic singular problems Regularity theory
Barcode	TH6623
Call No.	TH 517.956.2 DEE-E
Title	Calibrating sensor networks for environment sensing application
Researcher	Abhishek Grover
Department	Bharti School of Telecommunication Technology and Management, IITD
Year	2021
Supervisor	Brejesh Lal (Prof.) - EE
Physical description	140p.
Subject terms	Missing data Sensor deployment Baseline drift correction Chemical sensing Chemical sensors
Barcode	TH6624
Call No.	TH 628.52 GRO-C
Title	Mutual funds industry in India
Researcher	Manasi Gupta
Department	Department of Management Studies, IITD
Year	2021
Supervisor	Jain, P. K. (Honorary Prof.) - MS Yadav, Surendra Singh (Emeritus Prof.) - MS
Physical description	xxxiv, 373p.
Subject terms	Rate of return Analysis of risk Mutual fund industry Indian financial system Global financial crisis Macroeconomic environment
Barcode	TH6625
Call No.	TH 338.91(540) GUP-M

[Back to Content](#)

Title	Load transfer mechanism of connected and disconnected piled rafts in sand - model testing and analysis
Researcher	Prasun Halder
Department	Department of Civil Engineering, IITD
Year	2021
Supervisor	Manna, Bappaditya (Prof.) - CE
Physical description	xxxii, 277p.
Subject terms	Interaction factors Raft Settlement efficiency Load transfer mechanism Disconnected piled raft Connected piled raft
Barcode	TH6626
Call No.	TH 624.15 HAL-L
Title	Model for optimized irrigation scheduling for transpiring Hydrophilic vegetative covers on municipal solid waste landfills
Researcher	Shailendra Kumar Jain
Department	Department of Civil Engineering, IITD
Year	2021
Supervisor	Mathur, Shashi (Prof.) - CE
Physical description	xi, 142p.
Subject terms	Landfill cover Solid waste Irrigation sheduling Greenhouse gases Landfills
Barcode	TH6627
Call No.	TH 628.336.73 JAI-M
Title	Naturally derived vesicles for biomedical applications
Researcher	Sahil Malhotra
Department	Centre for Biomedical Engineering, IITD
Year	2021
Supervisor	Singh, Neetu (Assoc. Prof.) - CBME Koul, Veena (Emeritus Prof.) - CBME
Physical description	xxvii, 164p.
Subject terms	Blains Blisters - vesicles Acute dermatitis
Barcode	TH6628
Call No.	TH 616.5-002.1 MAL-N

Title	In situ microscopic tribology of near eutectic Al-Si alloy under boundary lubricated conditions
Researcher	Prashant Mittal
Department	Department of Materials Science and Engineering, IITD
Year	2021
Supervisor	Gosvami, Nitya Nand (Asst. Prof) - MSE
Physical description	xxvii, 213p.
Subject terms	Tribology Friction Lubrication regimes Materials Wear Tribofilm
Barcode	TH6629
Call No.	TH 669.715:621.89 MIT-I
Title	Exploration of nano- particles of solid lubricants as additives in greases
Researcher	Nikhil Kumar
Department	Centre for Automotive research and Tribology, IITD
Year	2021
Supervisor	Bijwe, Jayashree (Prof.) - CART
Physical description	xxii, 188p.
Subject terms	Nano lubricants Nano technology Nano oils Nano particles Graphite Energy saving
Barcode	TH6630
Call No.	TH 621.89:620.3 NIK-E
Title	Modelling industry 4.0
Researcher	Shubhangini Rajput
Department	Department of Management Studies, IITD
Year	2021
Supervisor	Singh, S. P. (Prof.) - MS
Physical description	xxx, 438p.
Subject terms	Reverse logistics Energy consumption Circular economy Sustainable production Supply chain Industries
Barcode	TH6631
Call No.	TH 681.5 RAJ-M

[Back to Content](#)

Title	Dynamic behaviour of instrumented single vertical and batter piles and pile groups under vertical and coupled vibrations: field model testing and theoretical study
Researcher	Rohit Ralli
Department	Department of Civil Engineering, IITD
Year	2021
Supervisor	Manna, Bappaditya (Prof.) - CE Datta, Manoj (Emeritus Prof.) - CE
Physical description	liv, 422p.
Subject terms	Dynamic axial load Coupled vibration Vertical vibration Batter pile Vertical pile
Barcode	TH6632
Call No.	TH 624.154 RAL-D
Title	Studies on the design of sequences with good correlation properties for applications in active sensing and communication systems
Researcher	Surya Prakash Sankuru
Department	Centre for applied Research in Electronics, IITD
Year	2021
Supervisor	Babu, Prabhu (Prof.) - CARE Arun Kumar (Prof.) - CARE
Physical description	xv, 160p.
Subject terms	Radiate energy Electromagnetic Acoustic Sensing system Radar Sonar
Barcode	TH6633
Call No.	TH 621.37 SAN-S
Title	Interrelationships of morphological, rheological, thermomechanical and electrical, behaviours in polyamide 12/ polypropylene- MWCNT nanocomposites
Researcher	Sucharita Sethy
Department	Department of Materials Science and Engineering, IITD
Year	2021
Supervisor	Satapathy, Bhabani. K. (Prof.) - MSE
Physical description	xxx, 169p.
Subject terms	Materials and methods Thermo mechanical relaxation Nanocomposites Rheological networks Electrical conductivity
Barcode	TH6634
Call No.	TH 678.074 SET-I

Title	Droplet behaviour on metastable hydrophobic and superhydrophobic nonwoven materials
Researcher	Sumit Sharma
Department	Department of Textile and Fibre Engineering, IITD
Year	2021
Supervisor	Rawal, Amit (Prof.) - TT
Physical description	xxxii, 281p.
Subject terms	Nonwoven materials Tomography analysis Wetting analysis Carbon nanotube Nanostructured materials
Barcode	TH6635
Call No.	TH 677.076.4 SHA-D
Title	Development and severe plastic deformation of novel hybrid MG based metal matrix composites
Researcher	Harprabhjot Singh
Department	Centre for Automotive Research and Tribology, IITD
Year	2021
Supervisor	Deepak Kumar (Assoc. Prof.)-CART
Physical description	xix, 149p.
Subject terms	Managesium-based compositions Viscous deformation Plastic deformation
Barcode	TH6636
Call No.	TH 539.374:666.962 SIN-D
Title	Engineering of metal-oxide semiconductors to amend a robust photoanode for photoelectrochemical water splitting
Researcher	Soniya
Department	Department of Chemistry, IITD
Year	2021
Supervisor	Ingole, Pravin P. (Assoc. Prof.) - CHY Abdi, Fatwa Firdaus (Deputy Head) - Institute for Solar Fuels, Germany
Physical description	xxvi, 203p.
Subject terms	Energy sources Photoelectrochemical Solar energy Nanostructure Hydrogen treatment Material characterization
Barcode	TH6637
Call No.	TH 546.26 SON-E

Title	Effects of wake confinement and buoyancy on flow transitions and heat transfer for a square cylinder
Researcher	Tanweer Sartaj
Department	Department of Applied Mechanics, IITD
Year	2021
Supervisor	Dewan, Anupam (Prof.) - AM Sanghi, Sanjeev (Prof.) - AM
Physical description	xxii, 159p.
Subject terms	Fluid flow Heat transfer Flow dynamics Wake confinement Turbulent regime Governing equations
Barcode	TH6638
Call No.	TH 532.543.7 TAN-E
Title	Essays in health economics
Researcher	Asmita Verma
Department	Department of Humanities and Social Sciences, IITD
Year	2021
Supervisor	Khera, Reetika (Assoc. Prof.) - HSS Paul, Sourabh Bikas (Asstt. Prof.) - HSS
Physical description	xviii, 160p.
Subject terms	Maternal satisfaction Quality of care Healthcare delivery Maternal - Child health Indian health system
Barcode	TH6639
Call No.	TH 364-787.9 VER-E
Title	Investigation in to the usage patterns and safety perceptions of the users of electric rickshaws in Indian cities
Researcher	Shiv Priye
Department	Department of Civil Engineering, IITD
Year	2021
Supervisor	M, Manoj(Asstt. Prof.)-CE
Physical description	xx, 163p.
Subject terms	Electric vehicles- Indian cities Electric rickshaws - Indian cities
Barcode	TH6640
Call No.	TH 629.064.5(540) SHI-I

[Back to Content](#)

Title	Quantitative susceptibility weighted imaging (SWI) in grading of intracranial mass lesions and assessment of acute ischemic stroke penumbra
Researcher	Rupsa Bhattacharjee
Department	Department of Biomedical Engineering, IITD
Year	2021
Supervisor	Singh, Anup (Assoc. Prof.) - CBME
Physical description	217p.
Subject terms	MRI methods Nervous system Stroke Glioma grading Radiomic analysis
Barcode	TH6641
Call No.	TH 616-073:612.1 BHA-Q
Title	Internal whistleblowing in organisations
Researcher	Smita Gupta
Department	Department of Management Studies, IITD
Year	2021
Supervisor	Bhal, Kanika T. (Prof.) - MS
Physical description	xxvii, 234p.
Subject terms	Ethical policies Whistleblowing Decision making Manufacturing sector Consultancy Information technology
Barcode	TH6642
Call No.	TH 366.762 GUP-I
Title	Studies on poly(lactic acid) and polyacrylate based anisotropic microparticles modified with polymer brushes
Researcher	Ifra
Department	Department of Materials Science and Engineering, IITD
Year	2021
Supervisor	Saha, Sampa (Assoc. Prof) - MSE
Physical description	xxx, 217p.
Subject terms	Anisotropic particles Biomedical field Biosensor Drug delivery Therapeutics Theranostics
Barcode	TH6643
Call No.	TH 539.22 IFR-S

Title	Planning and scheduling of process operations under uncertainty
Researcher	Edo Begna Jiru
Department	Department of Chemical Engineering, IITD
Year	2021
Supervisor	Shaik, Munawar A. (Prof.) - CHE
Physical description	xv, 174p.
Subject terms	Panning and scheduling Preventive scheduling Reactive scheduling Robust optimization Multi-stage scheduling
Barcode	TH6644
Call No.	TH 658.5:519.852 JIR-P
Title	Study of flow characteristics on helodeck of a ship model with modelled rotor downwash
Researcher	Ishaq Sayed Makkar
Department	Department of Applied Mechanics, IITD
Year	2021
Supervisor	Vijayakumar, R. - IIT Madras Sinha, Sawan S. (Assoc. Prof.) - AM Singh, S. N. (Prof. ret'd.) - AM
Physical description	I, 478p.
Subject terms	Shipborne Ship helo Ship design Wind tunnel Maritime helo Ship model
Barcode	TH6645
Call No.	TH 532.58:629.5 MAK-S
Title	Improving the ballistic impact resistance of soft body armour
Researcher	Unsanhame Mawkhlieng
Department	Department of Textile and Fibre Engineering, IITD
Year	2021
Supervisor	Majumdar, Abhijit (Prof.) - TT
Physical description	xxv, 207 p.
Subject terms	Fabric structure Yarn twist Natural rubber coating Yarns Fabric manufacturing Fabrics
Barcode	TH6646
Call No.	TH 677.076.44 MAW-I

[Back to Content](#)

Title	Raft agent primed mesoporous silica particles for selective grafting of polymer chains and their applications
Researcher	Smrutirekha Mishra
Department	Department of Materials Science and Engineering, IITD
Year	2021
Supervisor	Nebhani, Leena (Assoc. Prof.) - MSE
Physical description	xxii, 175p.
Subject terms	Silica materials Radical polymerization RAFT agent Silica nanoparticles Acrylamide
Barcode	TH6647
Call No.	TH 678.7 MIS-R
Title	Range-based cooperative and non-cooperative localization using non-linear programming
Researcher	Bodhibrata Mukhopadhyay
Department	Department of Electrical Engineering, IITD
Year	2021
Supervisor	Kar, Subrat (Prof.) - EE Srirangarajan, Seshan (Prof.) - EE
Physical description	xxi, 218p.
Subject terms	Geometric Dilution Sensor networks Node Detection Transmit power of sensor Analog output
Barcode	TH6648
Call No.	TH 621.37 MUK-R
Title	Investigations on bent-core liquid crystal systems
Researcher	Amina Naffes
Department	Department of Physics, IITD
Year	2021
Supervisor	Sinha, Aloka (Prof.) - PH
Physical description	xxxii, 143p.
Subject terms	Liquid crystals Optical anisotropy Dielectric anisotropy Nematic liquid crystals Electro optical studies
Barcode	TH6649
Call No.	TH 532.783 NAF-I

Title	Some investigations in the development of aluminum 6063 metal form through friction stir processing
Researcher	Sharaf U Nisa
Department	Department of Mechanical Engineering, IITD
Year	2021
Supervisor	Pandey, Sunil (Prof.) - JNU, New Delhi Pandey, Pulak Mohan (Prof.) - ME
Physical description	xx, 153p.
Subject terms	Porous metals Metal foams Aluminum Hydrogen gas Titanium hydride
Barcode	TH6650
Call No.	TH 669.018:620.3 NIS-S
Title	Essays in health economics
Researcher	Pandey Ekta
Department	Department of Humanities and Social Sciences, IITD
Year	2021
Supervisor	Paul, Sourabh B. (Asst. Prof.) - HSS Mukherjee, Saptarshi (Assoc. Prof.) - HSS
Physical description	242 p.
Subject terms	Health system Public health Health reforms Pharmaceutical industry Health expenditure National health mission
Barcode	TH6651
Call No.	TH 364-787.9 PAN-E
Title	Multivariate time-series analysis techniques for discovering computational biomarkers for epilepsy in EEG
Researcher	Siddhsrth Panwar
Department	Department of Electrical Engineering, IITD
Year	2021
Supervisor	Joshi, Shiv Dutt (Prof.) - EE Gupta, Anubha (Prof.) - IIIT Delhi Agarwal, Puneet (Director) - Max Hospital, Saket
Physical description	xv, 155p.
Subject terms	Electroencephalography Epilepsy diagnosis Recursive dynamic Neurophysiology Epileptic patients
Barcode	TH6652
Call No.	TH 616.831 PAN-M

[Back to Content](#)

Title	Investigating the functional roles of G-quadruplexes in the molecular biology of large ds-DNA viruses
Researcher	Nandhini Saranathan
Department	Kusuma School of Biological Sciences, IITD
Year	2021
Supervisor	Perumal, Vivekanandan(Prof.)-KSBS
Physical description	xxviii, 180p.
Subject terms	DNA viruses
Barcode	TH6653
Call No.	TH 577.213.7 SAR-I
Title	Applications of NMR spectroscopy to exchanging systems, long lived states, and solids
Researcher	Balvinder Singh
Department	Department of Chemistry,IITD
Year	2021
Supervisor	Kurur, Narayanan D.(Prof.)-IITD
Physical description	xxii, 164p.
Subject terms	NMR spectroscopy
Barcode	TH6654
Call No.	TH 543.429.23 SIN-A
Title	Carrier-selective contact silicon solar cells: role of silicon surface morphology and ageing on device performance
Researcher	Krishna Singh
Department	Department of Energy Science and Engineering,IITD
Year	2021
Supervisor	Komarala Vamsi K.(Prof.)-CES
Physical description	xix, 144p.
Subject terms	Silicon Solar cells Solar cells
Barcode	TH6655
Call No.	TH 621.383.51:546.28 SIN-C

Title	Durability studies on hydrogen fuelled spark ignition engine
Researcher	Sauhard Singh
Department	Department of Energy Science and Engineering, IITD
Year	2021
Supervisor	Subramanian, K. A.(Prof.)-CES Mathai, Reji(Director)-ARAI Pune
Physical description	xvii, 106p.
Subject terms	Hydrogen fuelled engine
Barcode	TH6656
Call No.	TH 621.43 SIN-D

Title	Ultra-fast temperature estimation methods for architecture-level thermal modeling
Researcher	Hameedah Sultan
Department	Amar Nath and Shashi Khosla School of Information and Technology, IITD
Year	2021
Supervisor	Sarangi, Smruti Ranjan (Assoc. Prof.) - CSE
Physical description	xxii, 169p.
Subject terms	Power density Chip temperature Thermal modeling Thermal simulators Neural network 3D chip
Barcode	TH6657
Call No.	TH 621.311 SUL-U

Title	Decision support system for improved scheduling, maintenance, and assessment of biopharmaceutical processes
Researcher	Vaibhav Kumar
Department	Department of Chemical Engineering, IITD
Year	2021
Supervisor	Shaik, Munawar A. (Assoc.Prof.) - CHE
Physical description	xvii, 127p.
Subject terms	Biopharmaceuticals Mathematical programming Optimization Scheduling Biomedical
Barcode	TH6658
Call No.	TH 615.4 VAI-D

[Back to Content](#)

Title	Effect of packing on performance of trickle bed reactor
Researcher	Thameed Aijaz
Department	Department of Chemical Engineering, IITD
Year	2021
Supervisor	Roy, Shantanu (Prof.) -CHE Nigam, K. D. P. (Prof.) -CHE
Physical description	xiv, 223p.
Subject terms	Reactor Network model Collision Phenomena Mass transfer
Barcode	TH6659
Call No.	TH 621.039.4 AIJ-E
Title	Advanced robust strategies for attitude control of spacecraft
Researcher	Syed Muhammad Amrr
Department	Department of Electrical Engineering, IITD
Year	2021
Supervisor	Janardhanan, S. (Prof.) - EE Mashuq-un-Nabi (Prof.) - EE
Physical description	xxiii, 175 p.
Subject terms	Spacecraft attitude control Sliding model control Lyapunov theory Metaheuristic technique Disturbance observer
Barcode	TH6660
Call No.	TH 629.78 AMR-A
Title	Understanding defects in advanced energy materials from first-principles calculations
Researcher	Ekta Arora
Department	Department of Physics, IITD
Year	2021
Supervisor	Bhattacharya, Saswata (Prof.) - PH
Physical description	xvi, 152 p.
Subject terms	Energy materials Hydrogen storage Electrochemical reduction Rechargeable battery Genetic algorithm
Barcode	TH6661
Call No.	TH 620.9 ARO-U

Title	Two dimensional periodic magnetic modulation
Researcher	Manisha Arora
Department	Department of Physics, IITD
Year	2021
Supervisor	Ghosh, Sankalpa (Prof.) - PH
Physical description	xv, 145 p.
Subject terms	Graphene energy Reciprocal lattice Bilayer graphene Magnetic translation Monolayer graphene
Barcode	TH6662
Call No.	TH 537.6:546.26 ARO-T

Title	Hydro-biochemical processes and river water quality simulation using multivariate statistics and soft computing techniques
Researcher	Sameer Arora
Department	Department of Civil Engineering, IITD
Year	2021
Supervisor	Keshari, Ashok K. (Prof.) -CE
Physical description	xxiii, 263p.
Subject terms	Water quality Computing techniques Parameters Geomorphology Simulation
Barcode	TH6663
Call No.	TH 628.1:681.3 ARO-H

Title	Geometrically nonlinear smart beam formulation and application
Researcher	PMG Bashir Asdaque
Department	Department of Applied Mechanics, IITD
Year	2021
Supervisor	Roy, Sitikantha (Assoc. Prof.) - AM
Physical description	xxii, 135p.
Subject terms	Smart beam models Cross sectional analysis Sensor beam Static analysis Eigenvalue analysis Impulse actuation
Barcode	TH6664
Call No.	TH 621.384 ASD-G

Title	Fischer-tropsch diesel from low ribblet ratio syngas catalyzed by nanoFE-Co dispersed hierarchical MFI zeolite
Researcher	Shashank Bahri
Department	Department of Chemical Engineering, IITD
Year	2021
Supervisor	Upadhyayula, Sreedevi (Prof.) - CHE
Physical description	xxxii, 252p.
Subject terms	Metal oxides Thermal analysis Spectroscopic techniques Elemental analysis Morphology
Barcode	TH6665
Call No.	TH 665.652.7 BAH-F
Title	Design of guidance laws based on time-energy efficient robust control strategies
Researcher	Arunava Banerjee
Department	Department of electrical Engineering, IITD
Year	2021
Supervisor	Kar, I N (Prof.) - EE Nabi, M (Prof.) - EE
Physical description	xxxii, 166 p.
Subject terms	Missile guidance Pseudospectral optical control Time delay control Adaptive-Robust control Quantized control
Barcode	TH6666
Call No.	TH 623.46 BAN-D
Title	Analysis of oscillatory behaviour in coupled dynamical systems
Researcher	Soumyadip Banerjee
Department	Department of Electrical Engineering, IITD
Year	2021
Supervisor	Kushal, Shah (Principal Data Scientist) - VuNet, Bangalore Sen, Shaunak (Prof.) - EE
Physical description	xi, 137p.
Subject terms	Vlasov equation Ponderomotive theory DNA model Floquet theory Flipping mechanism
Barcode	TH6667
Call No.	TH 577.31 BAN-A

Title	Novel methods to combat time varying non-stationary underwater acoustic channel
Researcher	Vijay Singh Bhadouria
Department	Bharti School of Telecommunication Technology and Management, IITD
Year	2021
Supervisor	Aggarwal, Monika (Prof.) - CARE
Physical description	xx, 161 p.
Subject terms	Quantitative analysis Communication channel Underwater Joint doppler Channel Estimation
Barcode	TH6668
Call No.	TH 681.883.45 BHA-N
Title	Layer resolving numerical methods for some singularly perturbed convection-reaction-diffusion interface problems
Researcher	Abhay Kumar Chaturvedi
Department	Department of mathematics, IITD
Year	2021
Supervisor	Rao, S. Chandra sekhar (Prof.) - MA
Physical description	xx, 282 p.
Subject terms	Interface problems Perturbed differential equation Boundary layers Parabolic Galerkin method
Barcode	TH6669
Call No.	TH 517 CHA-L
Title	Electro-catalytic and photoelectrochemical water splitting by graphite carbon nitride based nanoheterostructures
Researcher	Preeti Chaudhary
Department	Department of Chemistry, IITD
Year	2021
Supervisor	Ingole, Pravin P. (Assoc. Prof.) - CHY
Physical description	xxxiii, 183 p.
Subject terms	Photocurrent Nanosheets Semiconductor Graphitic carbon Silver nanoparticles
Barcode	TH6670
Call No.	TH 546.26:620.9 CHA-E

[Back to Content](#)