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Contents

Deptt. /Centre /School /Unit	Page No.
Applied Mechanics	1
Centre for Applied Research in Electronics	5
Centre for Automotive Research and Tribology.....	8
Centre for Biomedical Engineering	8
Chemical Engineering.....	9
Chemistry	10
Central Library*	11
Centre for Rural Development and Technology.....	16
Computer Science and Engineering,.....	18
Design	19
Electrical Engineering.....	30
Energy Science and Engineering	33
Humanities & Social Sciences	35
Mathematics	37
Mechanical Engineering	43
Management Studies	49
Optics & Photonics Centre.....	50
Physics.....	50
School of Artificial Intelligence.....	54
School of Biological Sciences	55
Sensors, Instrumentation and Cyber Physical System Engineering	57
School of Public Policy.....	58
Textile & Fibre Engineering	60

Applied Mechanics



Finite element concepts a closed-form algebraic development by Gautam Dasgupta, New York: Springer, 2018. - Trusses Four-node element Symbolics Triangulation Linear elasticity.

Includes bibliography and index (p.329-330)

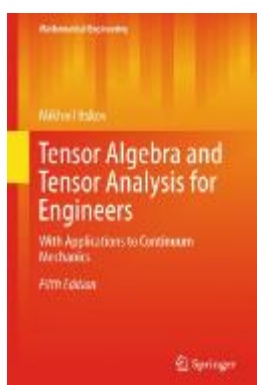
ISBN: 9781493974214

Subject Terms: Trusses Four-node element Symbolics Triangulation Linear elasticity

517.949 DAS-F

177257; AM

[Click here for more details.](#)



Tensor algebra and tensor analysis for engineers with applications to continuum mechanics by Mikhail Itskov, 5th ed. Cham: Springer, 2019. - Vectors Tensor analysis Euclidean space Spectral decomposition Tensor fuction.

Includes bibliography and index (p. 291-300)

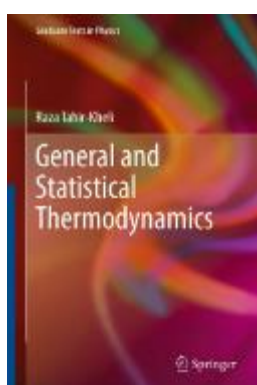
ISBN: 9783030075361

Subject Terms: Vectors Tensor analysis Euclidean space Spectral decomposition Tensor fuction

514.743:531 ITS-T

177254; CL

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General and statistical thermodynamics by Raza Tahir-Kheli, 2nd ed. Cham: Springer, 2020. - Carnot engine Joule cycle Heat engines Quantum gases Van der waals theory.

Includes bibliography and index (p. 651-658)

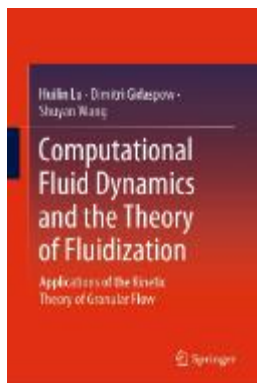
ISBN: 9783030207021

Subject Terms: Carnot engine Joule cycle Heat engines Quantum gases Van der waals theory

536.75 TAH-G

177223; CL

[Click here for more details.](#)



Computational fluid dynamics and the theory of fluidization applications of the kinetic theory of granular flow by Huilin Lu, Dimitri Gidaspow and Shuyan Wang, Singapore: Springer, 2021. - Heterogeneous drag model Fluidized bed experiments Chemical looping combustion Chemical looping reforming Fluidized bed.

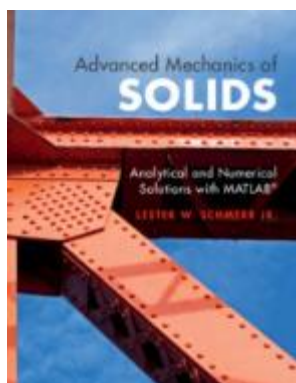
ISBN: 9789811615573

Subject Terms: Heterogeneous drag model Fluidized bed experiments Chemical looping combustion Chemical looping reforming Fluidized bed

532.5:66.096.5 LU-C

177228; CL

[Click here for more details.](#)



Advanced mechanics of solids analytical and numerical solutions with MATLAB by Lester W. Schmerr, Cambridge: Cambridge University Press, 2021. - Stress Equilibrium Strain Analytical solutions Work–Energy concepts.

Includes bibliography and index (p. 565-566)

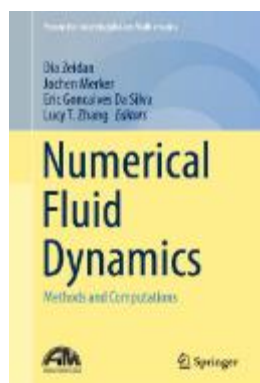
ISBN: 9781108843317

Subject Terms: Stress Equilibrium Strain Analytical solutions Work–Energy concepts

531M SCH-A

177212; CL

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Numerical fluid dynamics methods and computations edited by Dia Zeidan... (et al.), Singapore: Springer, 2022. - Forum for interdisciplinary mathematics.

Includes bibliography and index (p. 316-317)

ISBN: 9789811696640

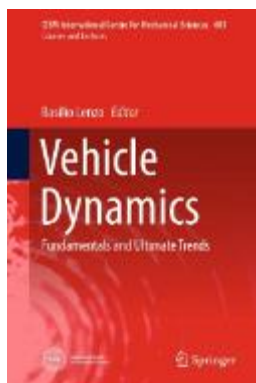
Subject Terms: Semi-analytical study Polynomial Nonequilibrium Local fluxes Elastic human airway

532.5 -NUM

177131; CL

[Click here for more details.](#)

[Back to Content](#)



Vehicle dynamics fundamentals and ultimate trends edited by Basilio Lenzo, Cham: Springer, 2022. - CISM International Centre for Mechanical Science.

Include bibliography and index (p. 381-387)

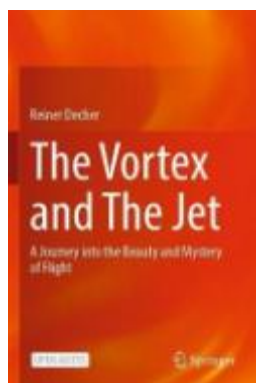
ISBN: 9783030758820

Subject Terms: Thermal effect Safety Kinematics Modelling Efficiency

629.021 -VEH

177132; CL

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Vortex and the jet a journey into the beauty and mystery of flight by Reiner Decher, Singapore: Springer, 2022. - .

Includes bibliography and index (173-175p.)

ISBN: 9789811680304

Subject Terms: Aerodynamics Aeronautics Aerospace engineering Bernoulli principle Jet Engine Turbine engine

629.73 DEC-V

177139; CL

[Click here for more details.](#)



Advanced thermal stress analysis of smart materials and structures by Zengtao Chen and Abdolhamid Akbarzadeh, Cham: Springer, 2020. - Thermal stress analysis Non-Fourier heat conduction Thermal fracture Functionally graded materials Piezoelectric materials.

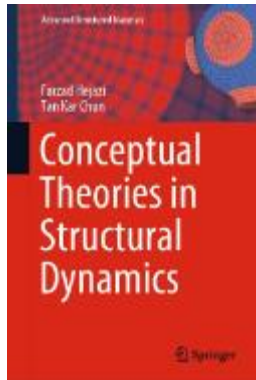
ISBN: 9783030252007

Subject Terms: Thermal stress analysis Non-Fourier heat conduction Thermal fracture Functionally graded materials Piezoelectric materials

624.042.5:620.1 CHE-A

177166; CL

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Conceptual theories in structural dynamics by Farzad Hejazi and Tan Kar Chun, Singapore: Springer, 2020. - Duhamel's integral Force transmissibility Dynamic response Orthogonality Damping component.

Includes bibliography and index (p. 213-217)

ISBN: 9789811554421

Subject Terms: Duhamel's integral Force transmissibility Dynamic response Orthogonality Damping component

624.04 HEJ-C

177170; AM

[Click here for more details.](#)



Computational multiscale modeling of fluids and solids theory and applications by Martin Oliver Steinhauser, 3rd ed..Cham: Springer, 2022. - Numerical simulation Computational methods on atomistic scale Riemannian manifolds Topological spaces Density functional theory.

Includes bibliography and index (p.411-432)

ISBN: 9783030989538

Subject Terms: Numerical simulation Computational methods on atomistic scale Riemannian manifolds Topological spaces Density functional theory

532.5 STE-C

177222; CL

[Click here for more details.](#)



Advanced fluid mechanics and heat transfer for engineers and scientists by Meinhard T. Schobeiri, Cham: Springer, 2022. - Thermo-Fluid science Turbulent flow Inviscid potential flows Vector and tensor analysis Viscous laminar flow.

Includes bibliography and index (p.569-584)

ISBN: 9783030729240

Subject Terms: Thermo-Fluid science Turbulent flow Inviscid potential flows Vector and tensor analysis Viscous laminar flow

532.5:62 SCH-A

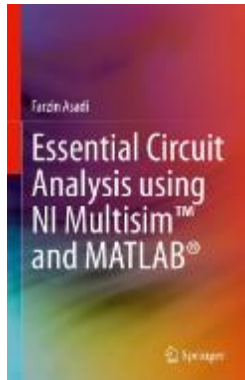
177227; CL

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[Back to Content](#)

Centre for Applied Research in Electronics

Essential circuit analysis using NI Multisim and MATLAB by Farzin Asadi, Cham: Springer, 2022. - Simulation of multisim Circuit theory Microelectronic circuits Analog circuit MATLAB.



Includes bibliography and index (p.767-769)

ISBN: 9783030898496

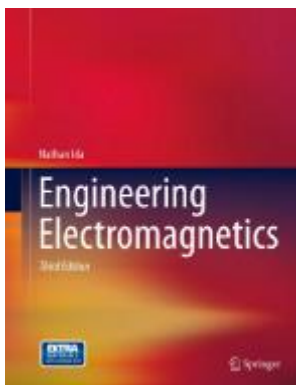
Subject Terms: Simulation of multisim Circuit theory Microelectronic circuits Analog circuit MATLAB

621.38:681.3.06M ASA-E

177164; CL

[Click here for more details.](#)

Engineering electromagnetics by Nathan Ida, 4th ed..Cham: Springer, 2021. - Ampere's law Coulomb's Law Electromagnetic fields Plane waves Transmission lines.



Includes bibliography and index (p. 1015-1028)

ISBN: 9783030155599

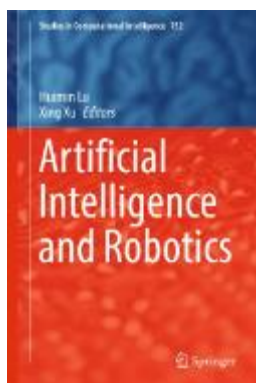
Subject Terms: Ampere's law Coulomb's Law Electromagnetic fields Plane waves Transmission lines

621.37 IDA-E

177273; CL

[Click here for more details.](#)

Artificial intelligence and robotics edited by Huimin Lu and Xing Xu, Cham: Springer, 2018. - Computational intelligence Intelligent systems Algorithm Face recognition Virtual machine Security game.



ISBN: 9783319698762

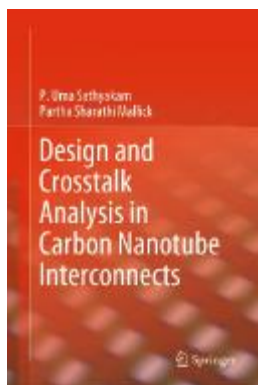
Subject Terms: Computational intelligence Intelligent systems Algorithm Face recognition Virtual machine Security game

681.3 -ART

177240; CL

[Click here for more details.](#)

[Back to Content](#)



Design and crosstalk analysis in carbon nanotube interconnects by P. Uma Sathyakam and Partha Sharathi Mallick, Singapore: Springer, 2021. - CNT interconnects Reducing crosstalk Ultra-low-k Dielectrics Thermal analysis Carbon nanotube density.

Includes bibliography and index (p.125-134)

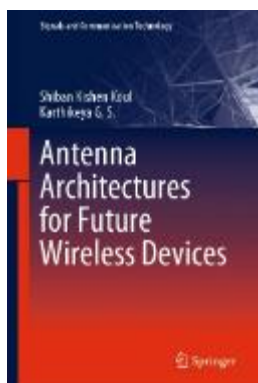
ISBN: 9789811588877

Subject Terms: CNT interconnects Reducing crosstalk Ultra-low-k Dielectrics Thermal analysis Carbon nanotube density

621.3.061:620.3 SAT-D

177241; CL

[Click here for more details.](#)



Antenna architectures for future wireless devices by Shiban Kishen Koul and Karthikeya G.S., Singapore: Springer, 2021. - Antenna design 5G networks Phased arrays Waveguide feed Smartphone antennas Multiband antennas.

Includes bibliography and index (p. 245-248)

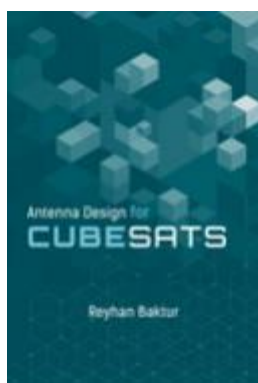
ISBN: 9789811677823

Subject Terms: Antenna design 5G networks Phased arrays Waveguide feed Smartphone antennas Multiband antennas

621.391 KOU-A

177239; CL

[Click here for more details.](#)



Antenna design for cubesats by Reyhan Baktur, Boston: Artech House, 2022. - Orbits Small satellites Solar panels Monopole antennas Launch vehicles.

Includes bibliography and index (p. 203-211)

ISBN: 9781630817855

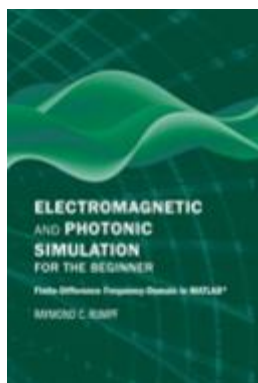
Subject Terms: Orbits Small satellites Solar panels Monopole antennas Launch vehicles

520.272.2:629.78 BAK-A

177267; CL

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[Back to Content](#)



Electromagnetic and photonic simulation for the beginner finite-difference frequency - domain in MATLAB by Raymond C. Rumpf, Boston: Artech House, 2022. - Finite-Difference method FDFD for calculating guided modes Anisotropic devices Scattering analysis Electromagnetism-Mathematics.

Includes bibliography and index (p.317-326)

ISBN: 9781630819262

Subject Terms: Finite-Difference method FDFD for calculating guided modes Anisotropic devices Scattering analysis Electromagnetism-Mathematics

537.8:681.3.06M RUM-E

177268; CL

[Click here for more details.](#)



CMOS analog and mixed-signal circuit design practices and innovations by Arjuna Marzuki, Boca Raton: CRC Press, 2020. - Electronic circuit design Metal oxide semiconductors Linear integrated circuits Mixed signal circuits Image sensor circuit design.

Includes bibliography and index (p. 265-270)

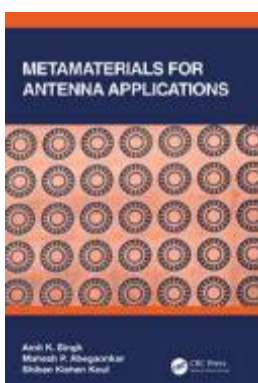
ISBN: 9780367498207

Subject Terms: Electronic circuit design Metal oxide semiconductors Linear integrated circuits Mixed signal circuits Image sensor circuit design

621.375.4 MAR-C

177216; CL

[Click here for more details.](#)



Metamaterials for antenna applications by Amit K. Singh, Mahesh P. Abegaonkar and Shibani Kishen Koul, Boca Raton: CRC Press, 2022. - .

Include bibliography and index (p. 189-195)

ISBN: 9780367493509

Subject Terms: Fabrication Microstrip Miniaturization Radiation Ultrathin

537.8 SIN-M

177122; CL

[Click here for more details.](#)

[Back to Content](#)



RF and time-domain techniques for evaluating novel semiconductor transistors by Keith A. Jenkins, Cham: Springer, 2022. - Large-Signal Small-Signal Continuous-Wave Connections Oscilloscope.

Includes bibliography and index (p. 159-168)

ISBN: 9783030777746

Subject Terms: Large-Signal Small-Signal Continuous-Wave Connections Oscilloscope

621.315.59 JEN-R

177171; CL

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Centre for Automotive Research and Tribology



Automotive technician training by Tom Denton and Hayley Pells, 2nd ed..Oxon: Routledge, 2022. - .

Include bibliography and index (p.566-568)

ISBN: 9781032002200

Subject Terms: Visible thinking Maintenance Workshop skills Risk Desgin

629.33 DEN-A

177107-177108; CL; CART

[Click here for more details.](#)

Centre for Biomedical Engineering



Medical device technologies a systems based overview using engineering standards by Gail Baura, 2nd ed..London: Academic Press, 2021. - Diagnosis and therapy devices Cochlear implants Hemodialyzers Artificial pancreas Internal cardioverter defibrillators.

Includes bibliography and index (p.607-620)

ISBN: 9780128119846

Subject Terms: Diagnosis and therapy devices Cochlear implants Hemodialyzers Artificial pancreas Internal cardioverter defibrillators

615.47:62 BAU-M

177176; 177244; CL; CBME

[Click here for more details.](#)

Chemical Engineering



Phase transitions in materials by Brent Fultz, 2nd ed..Cambridge: Cambridge University Press, 2020. - Thermodynamics Kinetics of phase transformations Nucleation Atomic Origins Melting Spinodal decomposition.

Includes bibliography and index (p. 579-587)

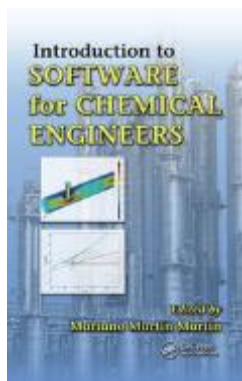
ISBN: 9781108485784

Subject Terms: Thermodynamics Kinetics of phase transformations Nucleation Atomic Origins Melting Spinodal decomposition

536.76 FUL-P

177213; CL

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Introduction to software for chemical engineers edited by Mariano Martin, 2nd ed..Boca Raton: CRC Press, 2020. - MATLAB Python Discrete element method Modular process simulators Algebraic modeling.

Includes bibliography and index (p.759-771)

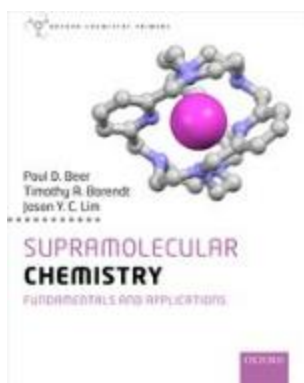
ISBN: 9781138324213

Subject Terms: MATLAB Python Discrete element method Modular process simulators Algebraic modeling

66:004.41 -INT

177272; CL

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Supramolecular chemistry fundamentals and applications by Paul Beer, Timothy Barendt, and Jason Lim, 2nd ed..Oxford: Oxford University Press, 2022. - Oxford chemistry primers.

Includes bibliography and index (p.181-182)

ISBN: 9780198832843

Subject Terms: Molecular recognition Binding of neutral guests Binding of charged guests Molecules Metal cation

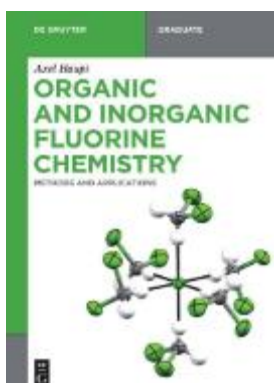
544.13 BEE-S

177178-177179; TB

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[Back to Content](#)

Chemistry



Organic and inorganic fluorine chemistry methods and applications by Axel Haupt, Berlin: De Gruyter, 2021. - Fluorinated compounds Solid-state structures Rare earth metal Polymeric functional materials Radiofluorination reactions.

Includes bibliography and index (p. 537-625)

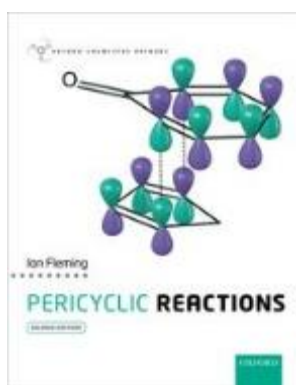
ISBN: 9783110659290

Subject Terms: Fluorinated compounds Solid-state structures Rare earth metal Polymeric functional materials Radiofluorination reactions

546.16:547 HAU-O

177188; CL

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Pericyclic reactions by Ian Fleming, 2nd ed., Oxford: Oxford University Press, 2015. - Oxford chemistry primers series.

Includes bibliography and index (p. 113-118)

ISBN: 9780199680900

Subject Terms: Cycloadditions Electrocyclic reactions Cheletropic reaction Bond making Correlation diagrams

547.5 FLE-P

177140; 177251; TB; CHY

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Concepts of materials science by Adrian P. Sutton, Oxford: Oxford University Press, 2021. - Phase Diagrams Restless Motion Collective Behaviour Metamaterials Quantum Behaviour.

Includes bibliography and index (p.133-137)

ISBN: 9780192846440

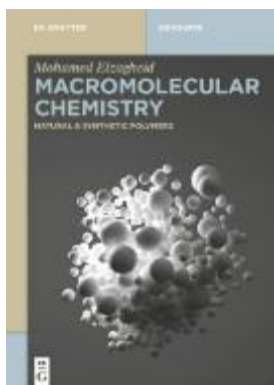
Subject Terms: Phase Diagrams Restless Motion Collective Behaviour Metamaterials Quantum Behaviour

620.1 SUT-C

177177; CL

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[Back to Content](#)



Macromolecular chemistry natural and synthetic polymers by Mohamed Elzagheid, Berlin: De Gruyter, 2022. - Carbohydrates Lipids Polymers Nucleic acid Amino acid.

Includes bibliography and index (p.111-117)

ISBN: 9783110762754

Subject Terms: Carbohydrates Lipids Polymers Nucleic acid Amino acid

541.64 ELZ-M

177197; CL

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Functional analysis by S. Kesavan, 2nd ed..New Delhi: Hindustan Book Agency, 2022. - Texts and readings in mathematics.

Includes bibliography and index (p. 283-287)

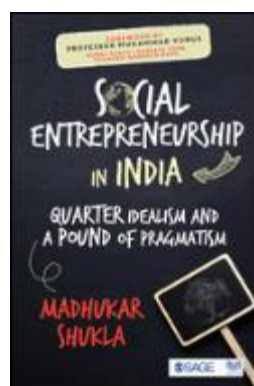
ISBN: 9788195196135

Subject Terms: Linear spaces Hahn-Banach theorems Baire's theorem Topologies Hilbert spaces

517.43 KES-F

177242-177243; TB

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Social entrepreneurship in India: quarter idealism and a pound of pragmatism quarter idealism and a pound of pragmatism by Madhukar Shukla, Los Angeles: Sage Publishing, 2020. - Aakar innovation Micro venture fund Commercial entrepreneurship Innovators Entrepreneurial models.

Includes bibliography and index (p. 249-256)

ISBN: 9789353882372

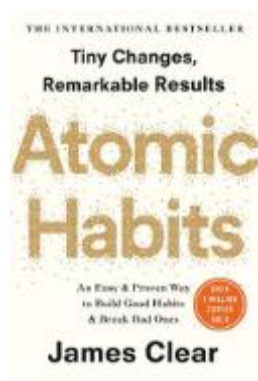
Subject Terms: Aakar innovation Micro venture fund Commercial entrepreneurship Innovators Entrepreneurial models

005.342(540) SHU-S

177247; CL

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[Back to Content](#)



Atomic habits an easy and proven way to build good habits and break bad ones: tiny changes, remarkable results by James Clear, London: Penguin Random House, 2018. - Habit breaking Behavior modification Self control Behavior change Accountability Stay motivated.

Includes bibliography and index (p. 299-306)

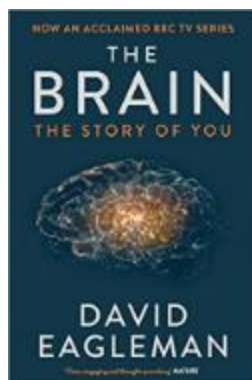
ISBN: 9781847941831

Subject Terms: Habit breaking Behavior modification Self control Behavior change Accountability Stay motivated

159.943.7 CLE-A

177265; CL

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Brain the story of you David Eagleman, New York: Vintage Books, 2015. - Neurosciences Self Brain - Evolution Brain - Physiology Human behavior Consciousness.

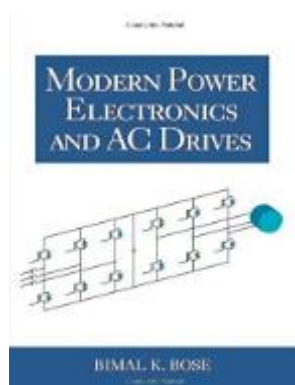
ISBN: 9780525433446

Subject Terms: Neurosciences Self Brain - Evolution Brain - Physiology Human behavior Consciousness

611.8 EAG-B

177282; CL

[Click here for more details.](#)



Modern power electronics and AC drives by Bimal K. Bose, Uttar Pradesh: Pearson, 2016. - Electric motors Alternating current Cycloconverters Current-Fed converters Synchronous motor drives.

Includes bibliography and index (p. 701-720)

ISBN: 9789332557550

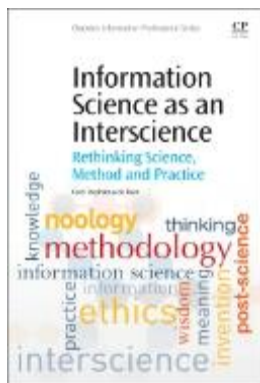
Subject Terms: Electric motors Alternating current Cycloconverters Current-Fed converters Synchronous motor drives

621.313.3 BOS-M

177205-177207; CL; TB

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[Back to Content](#)



Information science as an interscience rethinking science, method and practice by Carel Stephanus de Beer, Amsterdam: Chandos publishing, 2015. - Information science - Research Acritical philosophy Philosophy of information Science Knowledge.

Includes bibliography and index (p. 135-139)

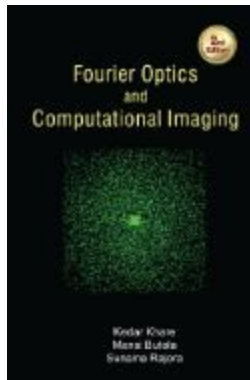
ISBN: 9780081001400

Subject Terms: Information science - Research Acritical philosophy Philosophy of information Science Knowledge

001:101.1 BEE-I

177283; CL

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Fourier optics and computational imaging by Kedar Khare, Mansi Butola and Sunaina Rajora, 2nd ed..New Delhi: Ane Books, 2022. - .

Includes bibliography and index (p. 299-302)

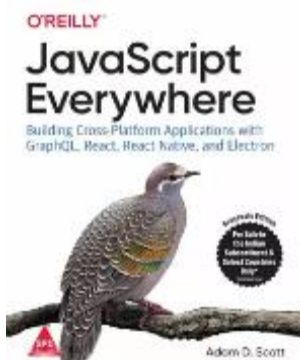
ISBN: 9789390658756

Subject Terms: Fourier series Gibbs phenomenon Delta function Fourier transform Sampling theorem

535.8:517.518.45 KHA-F

177271; TB

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Javascript everywhere building cross-platform applications with GraphQL, React, React Native, and Electron by Adam D. Scott., Sebastopol: O'Reilly, 2020. - API introduction Database Web authentication Mobile application Prettier Developer tools.

Includes bibliography and index (p. 315-320)

ISBN: 9789352139651

Subject Terms: API introduction Database Web authentication Mobile application Prettier Developer tools

681.3.06J SCO-J

177269; CL

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[Back to Content](#)



HTML and CSS design and build websites by Jon Duckett, Indianapolis: Wiley, 2011. - Video & audio Layout Color Links Images.

Includes bibliography and index (p. 492-556)

ISBN: 9781118008188

Subject Terms: Video & audio Layout Color Links Images

681.3.06H DUC-H

177161; CL

[Click here for more details.](#)



JavaScript and JQuery interactive front-end Web development by Jon Duckett, Indianapolis: Wiley, 2014. - Decisions & loops Error handling Debugging Ajax & JSON Document object model.

Includes bibliography and index (p. 622-630)

ISBN: 9781118531648

Subject Terms: Decisions & loops Error handling Debugging Ajax & JSON Document object model

681.3.06J DUC-J

177162; CL

[Click here for more details.](#)



India's science geniuses and the problems they are solving by Archana Sharma and Spoorthy Raman, New Delhi: Juggernaut, 2022. - Chloroplasts in plant cell India- neutrino dreams Green chemistry Attraction between molecules Decode body's protein.

Includes bibliography and index (p.287-300)

ISBN: 9789393986009

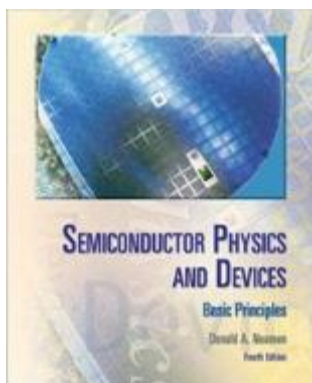
Subject Terms: Chloroplasts in plant cell India- neutrino dreams Green chemistry Attraction between molecules Decode body's protein

5-056.4(540) SHA-I

177163; CL

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[Back to Content](#)



Semiconductor physics and devices basic principles by Donald A. Neamen, 4th ed..Chennai: McGraw Hill, 2021. - Quantum Mechanics Field-Effect Transistor Bipolar transistor Optical devices pn Junction.

Includes bibliography and index (p.738-758)

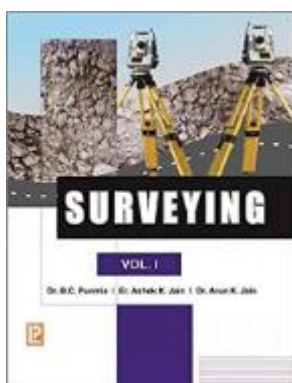
ISBN: 9789354601125

Subject Terms: Quantum Mechanics Field-Effect Transistor Bipolar transistor Optical devices pn Junction

537.311.33 NEA-S

177208-177210; CL; TB

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Surveying by B.C. Punmia, Ashok K. Jain and Arun K. Jain, 17th ed..New Delhi: Laxmi Publications, 2022. - .

Includes bibliography and index (p. 515-520)

ISBN: 9788170088530

Subject Terms: Chain surveying Traverse surveying Levelling Calculation of area

528 PUN-S

177091-177093; TB

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Writing the first person literature, history and autobiography in modern Kerala by Udaya Kumar, New Delhi: Permanent Black, 2017. - Intensities Gender Sovereignty World Performance.

Includes bibliography and index (p. 292-324)

ISBN: 9788178245201

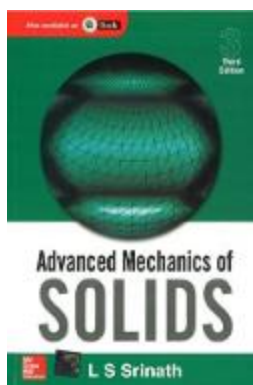
Subject Terms: Intensities Gender Sovereignty World Performance

82-312.6(540.69) UDA-W

177160; CL

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[Back to Content](#)



Advanced mechanics of solids by L S Srinath, 3rd ed..Chennai: Mc Graw Hill, 2009. - .

Includes bibliography and index (p.494-504)

ISBN: 9780070139886

Subject Terms: Surface force Stress Cubic equation Pure shear Displacement

531 SRI-A

BB76647-BB76651; CL

[Click here for more details.](#)

Centre for Rural Development and Technology

Advanced materials and technologies for wastewater treatment edited by Sreedevi Upadhyayula and Amita Chaudhary, Boca Raton: CRC Press, 2022. - Quantitative analysis of water Ultrasonic wastewater treatment Physical processes in wastewater treatment Chemistry in wastewater treatment Biochemical processes in wastewater treatment Biochar in water treatment.



Includes bibliography and index (p. 367-372)

ISBN: 9780367686161

Subject Terms: Quantitative analysis of water Ultrasonic wastewater treatment Physical processes in wastewater treatment Chemistry in wastewater treatment Biochemical processes in wastewater treatment Biochar in water treatment

628.1/.3 -ADV

177245; CL

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Sustainable technologies for water and wastewater treatment edited by Noel Jacob Kaleekkal... (et al.), Boca Raton: CRC Press, 2021. - Sewage Water - Biological treatment Water purification Water - Membrane filtration Green chemistry.



Includes bibliography and index (p. 387-398)

ISBN: 9780367510374

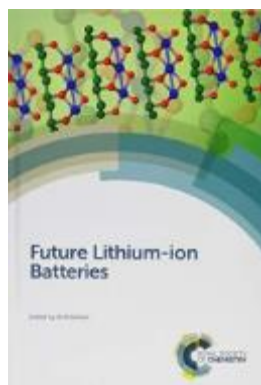
Subject Terms: Sewage Water - Biological treatment Water purification Water - Membrane filtration Green chemistry

628.1/.3 -SUS

177246; CL

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[Back to Content](#)



Future lithium-ion batteries edited by Ali Eftekhari, London: Royal Society of Chemistry, 2019. - .

Includes bibliography and index (358-367p.)

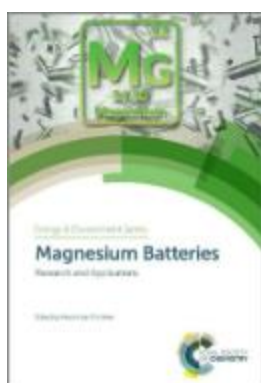
ISBN: 9781788014182

Subject Terms: Nitride materials Layered ni-rich cathode materials Solid electrolytes Potassium batteries Battery storage

621.35 -FUT

177104; CL

[Click here for more details.](#)



Magnesium batteries edited by Maximilian Fichtner research and applications, London: RSC Press, 2020. - Energy and environment series.

Includes bibliography and index (328-337p.)

ISBN: 9781788014342

Subject Terms: Electric batteries-Materials Non-aqueous electrolytes Solid state Magnesium-ion Cathode materials Aqueous Mg batteries Sulfur batteries

546.46:523.57 -MAG

177105; CL

[Click here for more details.](#)



Food microbiology and biotechnology safe and sustainable food production edited by Guadalupe Virginia Nevarez-Moorillon... (et al.), Burlington: Apple Academic Press, 2021. - Food-Safety measures Food supply-Environmental aspects Food-Preservation Sustainable production Biomass fractionation.

Includes bibliography and index (p.439-446)

ISBN: 9781774634875

Subject Terms: Food-Safety measures Food supply-Environmental aspects Food-Preservation Sustainable production Biomass fractionation

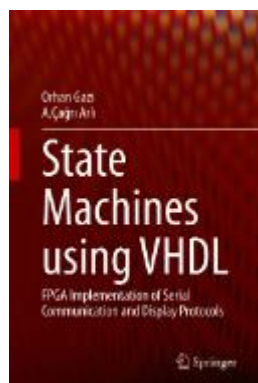
579.67:60 -FOO

177264; CL

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[Back to Content](#)

Computer Science and Engineering,



State machines using VHDL FPGA implementation of serial communication and display protocols by Orhan Gazi and A.Cagri Arli, Cham: Springer, 2021. - Embedded systems Advanced Digital Design FPGA I2C Video Graphic Array.

Includes bibliography and index (p. 309-313)

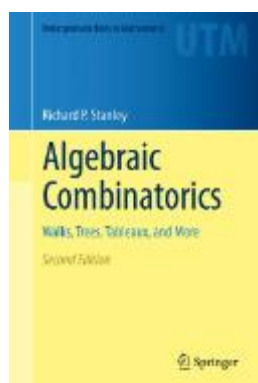
ISBN: 9783030616977

Subject Terms: Embedded systems Advanced Digital Design FPGA I2C Video Graphic Array

621.391:681.3.06V GAZ-S

177220; CL

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Algebraic combinatorics walks, trees, tableaux, and more by Richard P. Stanley, 2nd ed..Cham: Springer, 2018. - Matrix-Tree theorem Radon transform Sperner property Eulerian digraphs Plane partitions.

Includes bibliography and index (p. 251-263)

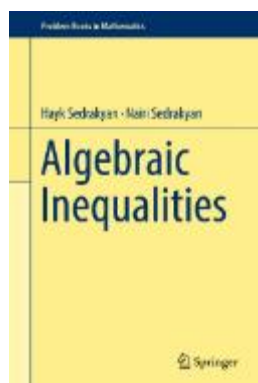
ISBN: 9783319771724

Subject Terms: Matrix-Tree theorem Radon transform Sperner property Eulerian digraphs Plane partitions

519.1 STA-A

177248; CL

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Algebraic inequalities by Hayk Sedrakyan and Nairi Sedrakyan, Cham: Springer, 2018. - Proving inequalities Algebraic geometry Inequalities methods Derivatives Integrals.

Includes bibliography and index (p. 243-243)

ISBN: 9783319778358

Subject Terms: Proving inequalities Algebraic geometry Inequalities methods Derivatives Integrals

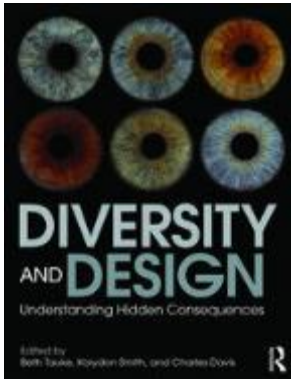
512.13 SED-A

177249; CSE

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[Back to Content](#)

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Diversity and design understanding hidden consequences edited by Beth Tauke, Korydon Smith, and Charles Davis, New York: Routledge, 2016. - Race Ethnicity Gender Sexuality Age Ability.

Includes bibliography and index (p. 298-305)

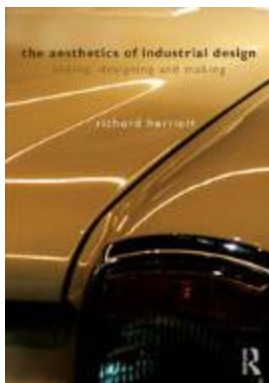
ISBN: 9781138023178

Subject Terms: Race Ethnicity Gender Sexuality Age Ability

72:74 -DIV

177200; CL

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Aesthetics of industrial design seeing, designing, making by Richard Herriott, Abingdon: Routledge, 2022. - Craftsmanship Product semantics Anthropomorphism Curvature Ergonomics.

Includes bibliography and index (p. 197-200)

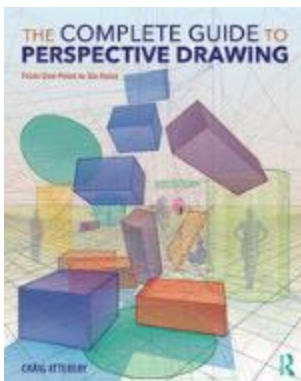
ISBN: 9781032024189

Subject Terms: Craftsmanship Product semantics Anthropomorphism Curvature Ergonomics

7.02:111.852 HER-A

177199; CL

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Complete guide to perspective drawing from one-point to six-point by Craig Attebery, Oxon: Routledge, 2018. - .

Includes bibliography and index (p. 348-358)

ISBN: 9781138215627

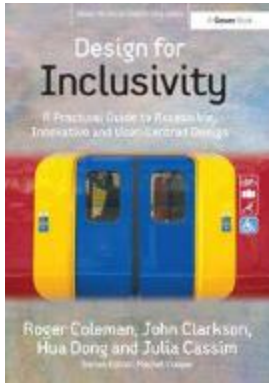
Subject Terms: Geometry Cuboid Vanishing point Ellipses Curves

742 ATT-C

177083; CL

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[Back to Content](#)



Design for inclusivity a practical guide to accessible, innovative and user-centred design by Roger Coleman... (et al.), Oxon: Routledge, 2016. - Design for social responsibility series.

Includes bibliography and index (p. 238-246)

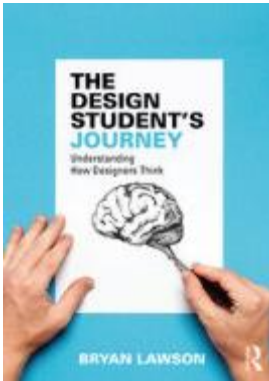
ISBN: 9.7805660871e+12

Subject Terms: Growing movement Viewpoint Challenge Design exclusion Simulation Theory

74 -DES

177084; CL

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Design students's journey understanding how designers think by Bryan Lawson, Oxon: Routledge, 2018. - .

Include bibliography and index (p. 306-315)

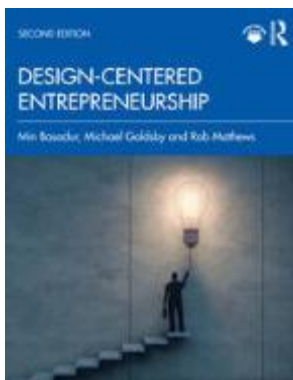
ISBN: 9781138328570

Subject Terms: Vernacular design Components Schemata Gambits Ideas

74 LAW-D

177085; CL

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Designcentered entrepreneurship by Min Basadur, Michael Goldsby and Rob Mathews, 2nd ed..Oxon: Routledge, 2016. - .

Includes bibliography and index (p. 319-332)

ISBN: 9781032070100

Subject Terms:

74:658 BAS-D

177086; CL

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[Back to Content](#)



Interaction for designers how to make things people love by Brian L. M. Boyd, Oxon: Routledge, 2019. - .

Include bibliography and index (p. 305-311)

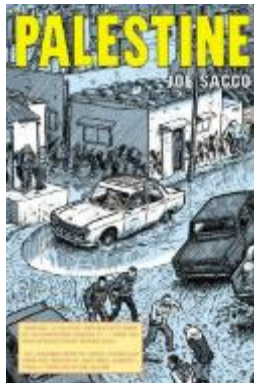
ISBN: 9780415787253

Subject Terms: Communication Expanding Style Prototype Ozing

74 BOY-I

177087; CL

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Palestine by Joe Sacco, London: Random House, 2003. - .

ISBN: 9780224069823

Subject Terms: Gaza strip Techniques Exploiting Textual devices Daunting

82-341 SAC-P

177088; CL

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Poetics of space by Gaston Bachelard, New York: Penguin Classics, 2014. - .

Includes bibliography and index (p. 258-268)

ISBN: 9780143107521

Subject Terms: House Universe Shells Miniature Hut

72.01 BAC-P

177089; CL

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[Back to Content](#)



Visual history of type by Paul McNeil, London: Lawrence King Publishing, 2017. - .

Includes bibliography and index (p. 666-672)

ISBN: 9781780679761

Subject Terms: Beak Ascent Display Italic Ink trap

74:93/94 MCN-V

177090; CL

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THE FILMS OF CHARLES
AND RAY EAMES
A Universal Sense of Expectation
ERIC SCHULDENFREI

R

Films of Charles and Ray Eames a universal sense of expectation by Eric Schuldenfrei, London: Routledge, 2015. - Routledge research in architecture.

Includes bibliography and index (221-239p.)

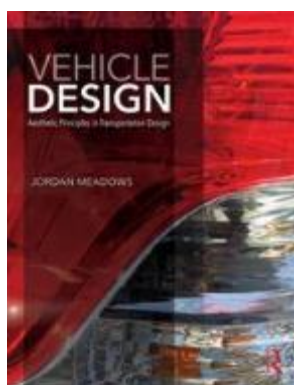
ISBN: 9781138229334

Subject Terms: Design-consumer culture Mass media Hypothetical course Art and architecture Information transmission

74:791-2 SCH-F

177100; CL

[Click here for more details.](#)



VEHICLE
DESIGN
Aesthetic Principles in Transportation Design

JORDAN MEADOWS

Vehicle design aesthetic principles in transportation design by Jordan Meadows, New York: Routledge, 2018. - .

Includes bibliography and index (216-222p.)

ISBN: 9781138685604

Subject Terms: Vehicles-Design and construction Research examples Design movements Consumer insights Mazda motorsports

629.01 MEA-V

177101; CL

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[Back to Content](#)



Visualizing research a guide to the research process in art and design by Carole Gray and Julian Malins, London: Routledge, 2017. - .

Includes bibliography and index (205-214p.)

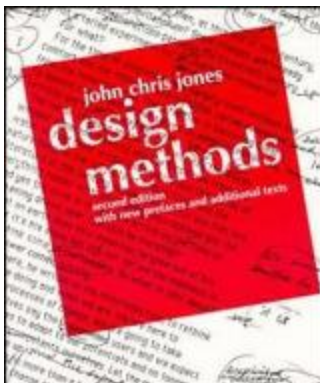
ISBN: 9780754635772

Subject Terms: Research-Methodology Universities-Graduate work Art-Research Design-Research Contextualizing research

72:001.891.3 GRA-V

177102; CL

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Design methods by John Chris Jones with new prefaces and additional texts, 2nd. ed..New York: Wiley, 1992. - .

Includes bibliography and index (397-407p.)

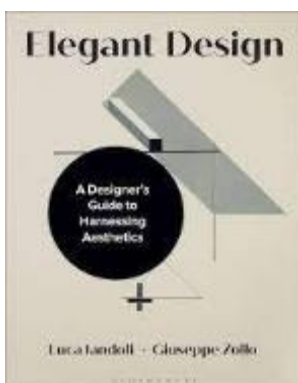
ISBN: 9780471284963

Subject Terms: Engineering design Industrial design Developing design process Prefabricated strategies Exploring problems

744.4 JON-D

177103; CL

[Click here for more details.](#)



Elegant design a designer's guide to harnessing aesthetics by Luca Landolfi and Giuseppe Zollo, London: Bloomsbury Publishing, 2022. - .

Include bibliography and index (p. 161-180)

ISBN: 9781350174269

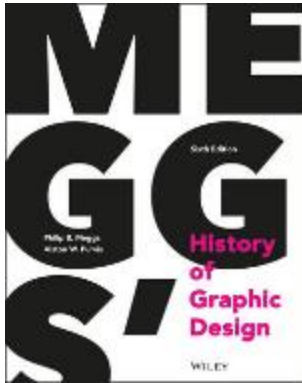
Subject Terms: Beauty Complexity Effective Photographic Emotional

74 LAN-E

177110; CL

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[Back to Content](#)



Meggs' history of graphic design by Philip B. Meggs and Alston W. Purvis, 6th ed..New Jersey: Wiley, 2016. - .

Includes bibliography and index (p. 657-680)

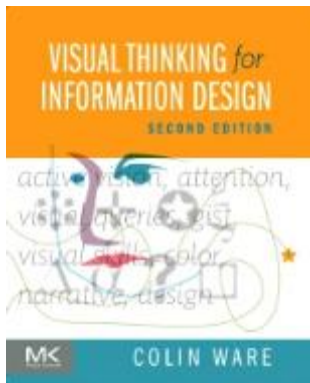
ISBN: 9781118772058

Subject Terms: Asian contribution Writing Typographic style Visual system Image

76:93/94 MEG-H

177111; CL

[Click here for more details.](#)



Visual thinking for information design by Colin Ware, 2nd ed..Amsterdam: Elsevier, 2021. - .

Includes bibliography and index (199-212p.)

ISBN: 9780128235676

Subject Terms: Visual verbal narrative Visual perception Design Information visualization Cue theory

74:159.953.2 WAR-V

177112; CL

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Packaging for sustainability edited by Karli Verghese, Helen Lewis and Leanne Fitzpatrick, London: Springer, 2012. - .

Includes bibliography and index (378-384 p.)

ISBN: 9781447159667

Subject Terms: Packaging-Environmental aspects Packaging-Design Engineering design Industrial engineering Management Production engineering

658.788.4 -PAC

177113; CL

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[Back to Content](#)



Routledge companion to design research edited by Paul A. Rodgers and Joyce Yee, New York: Routledge, 2018. - Routledge companions.

Includes bibliography and index (515-522p.)

ISBN: 9781138310247

Subject Terms: Research approaches Cybernetic model Structuring-design knowledge Medidisciplinary sea Graphic theory

72:303.8 -ROU

177114; CL

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Architecture & design versus consumerism how design activism confronts growth by Ann Thorpe, Oxon: Routledge, 2012. - .

Includes bibliography and index (p. 235-242)

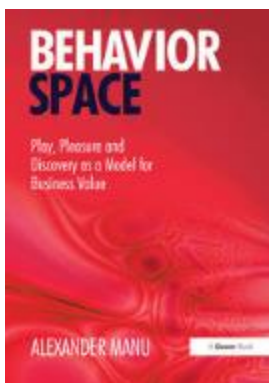
ISBN: 9781849713566

Subject Terms: Activism Movement society Shadow Picking up Speculating

72.01:366 THO-A

177115; CL

[Click here for more details.](#)



Behavior space play, pleasure and discovery as a model for business value by Alexander Manu, London: Routledge, 2016. - .

Includes bibliography and index (223-234p.)

ISBN: 9781409446842

Subject Terms: Creative ability-business Consumers-attitudes Strategic planning Product design Consumer behavior New products-social aspects

7:658.310-8 MAN-B

177116; CL

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[Back to Content](#)



Design attitude by Kamil Michlewski, London: Routledge, 2015. - Online access with DDA.

Includes bibliography and index (199-227p.)

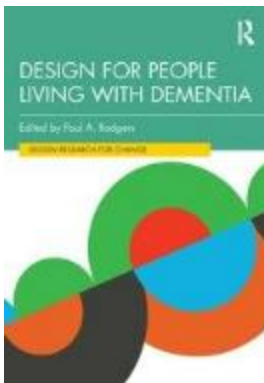
ISBN: 9781472421180

Subject Terms: Management Creative ability Industrial design Industrial designers Design influence

7:658.5 MIC-D

177117; CL

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Design for people living with dementia edited by Paul A. Rodgers, New York: Routledge, 2022. - .

Includes bibliography and index (246-253p.)

ISBN: 9780367554750

Subject Terms: Dementia care-patients Medical instruments Apparatus-Design construction Health planning

7.012:616.892.2 -DES

177118; CL

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Duotone limited colour schemes in graphic design edited by Design 360° Magazine, Barcelona: Flamant, 2018. - .

Includes bibliography and index (p. 233-240)

ISBN: 9788417084073

Subject Terms: Colour matching Effects Typography Lineage Heritage

766:659.133.1 -DUO

177154; CL

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[Back to Content](#)



Emotionally durable design objects, experiences and empathy by Jonathan Chapman, 2nd ed..Oxon: Routledge, 2015. - .

Include bibliography and index (p. 195-207)

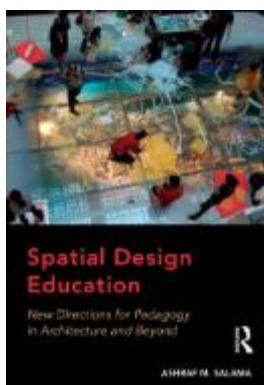
ISBN: 9780415732154

Subject Terms: Ecological Resources Waste Creativity Symptomatic

74 CHA-E

177119; CL

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Spatial design education new directions for pedagogy in architecture and beyond by Ashraf M. Salama, New York: Routledge, 2016. - .

Includes bibliography and index (p. 332-385)

ISBN: 9781138573505

Subject Terms: Pedagogy Education Ethical approach Live project Studio

72.01 SAL-S

177120; CL

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What designers know by Bryan Lawson, Oxon: Routledge, 2004. - .

Includes bibliography and index (p. 120-127)

ISBN: 9780815395294

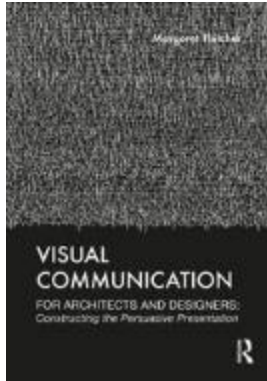
Subject Terms: Knowledge Drawings Manipulating Conversations Expert

745/749 LAW-W

177143; CL

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Visual communication for architects and designers constructing the persuasive presentation by Margaret Fletcher, New York: Routledge, 2020. - .



Includes bibliography and index (282-285p.)

ISBN: 9780367134631

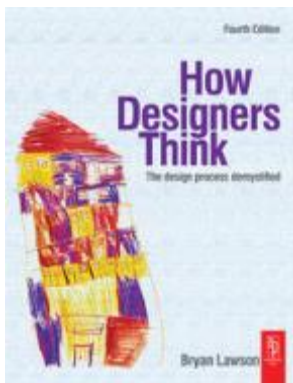
Subject Terms: Communication-architectural design Design Narratives Visual structure Visual organization Presentation strategies

72.04 FLE-V

177146; CL

[Click here for more details.](#)

How designers think the design process demystified by Bryan Lawson, Oxon: Routledge, 2005. - .



Includes bibliography and index (p. 305-321)

ISBN: 9780750660778

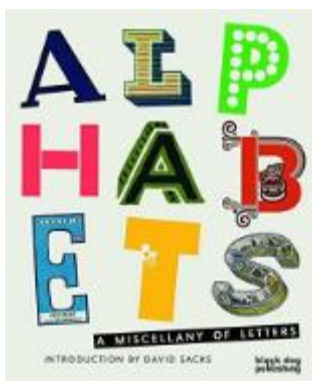
Subject Terms: Route map Problems Styling Thinking Model

72.01 LAW-H

177147; CL

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Alphabets a miscellany of letters introduction by David Sacks, London: Black dog publihsing, 2010. - .



ISBN: 9781907317095

Subject Terms: Lettering-art Graphic design Typography Commercial art Design ideas

744.9 SAC-A

177152; CL

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Design funny a graphic designer's guide to humor by Heather Bradley, Cincinnati: How Books, 2015. - .

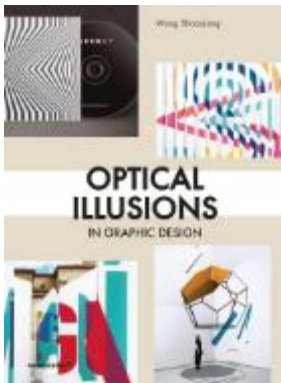
ISBN: 9781440335495

Subject Terms: Commercial art Wit humor Pictorial Typography Graphic arts

766:82-7 BRA-D

177153; CL

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Optical illusions in graphic design by Wang Shaoquiang, Barcelona: Promopress, 2020. - .

Includes bibliography and index (p. 233-240)

ISBN: 9788417412296

Subject Terms: Lines Waves Overlapping Spatial experience Parallel contour

76:612.821.89 -OPT

177155; CL

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Twentieth century design a decade-by-decade exploration of graphic style by Tony Seddon, Ohio: How Books, 2014. - .

Includes bibliography and index (p. 218-224)

ISBN: 9781440336171

Subject Terms: Postscript Antique Digital age Constructivism Craw

74:76 SED-T

177156; CL

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[Back to Content](#)

No more rules graphic design and postmodernism by Rick Poynor, London: Laurence King, 2003. - .



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ISBN: 9781780671031

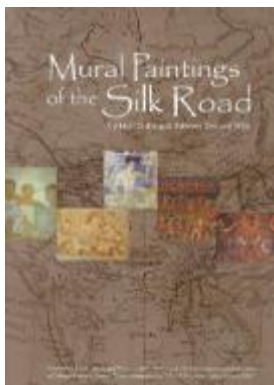
Subject Terms: Typography Visual communication nontextual matter Art work
Presentation strategies

766.036 PON-N

177157; CL

[Click here for more details.](#)

Mural paintings of the silk road cultural exchanges between east and west
edited by Kazuya Yamauchi, Yoko Taniguchi and Tomoko Uno, London:
Archetype Books, 2007. - .



ISBN: 9781904982227

Subject Terms: Silk road Samarkand Ancient painted Conversation problem
Monumental painting

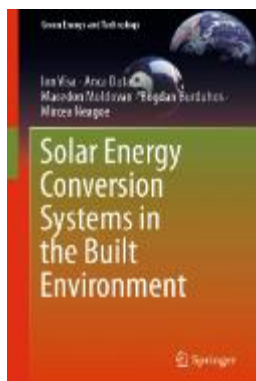
75.052(5-11:5-15) -MUR

177158; CL

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Solar energy conversion systems in the built environment by Ion Visa... (et al.),
Cham: Springer, 2020. - Renewable energy systems Environment - Energy
Sustainable energy Solar thermal systems Photovoltaics Sustainable
community.



ISBN: 9783030348281

Subject Terms: Renewable energy systems Environment - Energy Sustainable
energy Solar thermal systems Photovoltaics Sustainable community

621.472:502 -SOL

177238; CL

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Theory and applications for control of aerial robots in physical interaction through tethers by Marco Tognon and Antonio Franchi, Cham: Springer, 2021. - Robotic elements Tethered aerial vehicles State estimation Robotics Optimal trajectory planning.

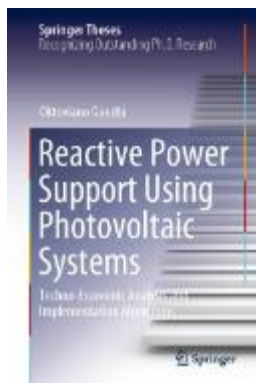
ISBN: 9783030486587

Subject Terms: Robotic elements Tethered aerial vehicles State estimation Robotics Optimal trajectory planning

681.5 MAR-T

177235; CL

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Reactive power support using photovoltaic systems techno-economic analysis and implementation alorithms by Oktoviano Gandhi, Singapore: Springer, 2021. - Distribution system Optimisation algorithm Photovoltaic inverter Power system Power dispatch optimisation.

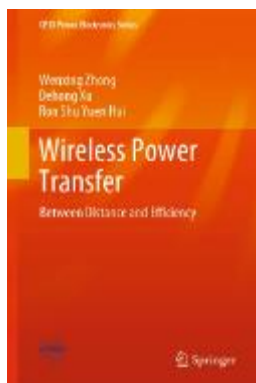
ISBN: 9783030612504

Subject Terms: Distribution system Optimisation algorithm Photovoltaic inverter Power system Power dispatch optimisation

621.311:621.383.51 GAN-R

177237; CL

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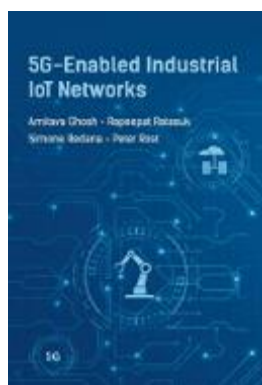
ISBN: 9789811524400

Subject Terms: Inductive power transfer Wireless charging Contactless power transfer Power transfer efficiency Qi standard

621.3.05 ZHO-W

177236; CL

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Subject Terms: Wireless video Machine remote control Cloud robotics Logistics hubs Cellular IoT deployments Edge cloud integration

621.39:681.3 -FIV

177274; CL

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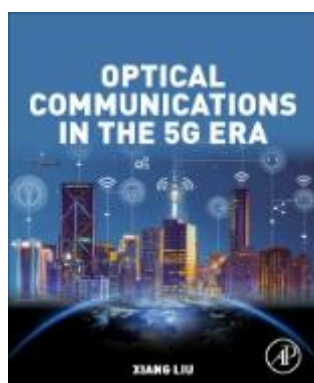
ISBN: 9780367507909

Subject Terms: Nonlinear control theory Controllability Dynamical decomposition Lie group Entanglement

530.145:512.554.3 DAL-I

177263; CL

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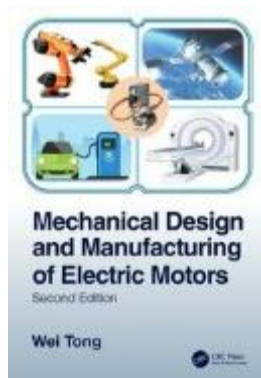
Subject Terms: Evolution Societal impact Multiple output Deployment O-RAN interfaces

621.391 LIU-O

177192; CL

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[Back to Content](#)



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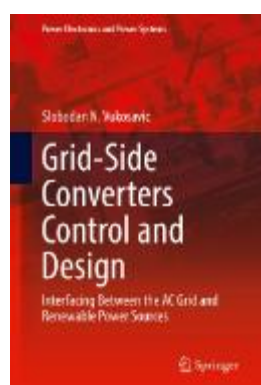
Subject Terms: Electric machines Motor design Torque density Motor efficiency Reluctance motors

621.313.13 TON-M

177259; CL

[Click here for more details.](#)

Energy Science and Engineering



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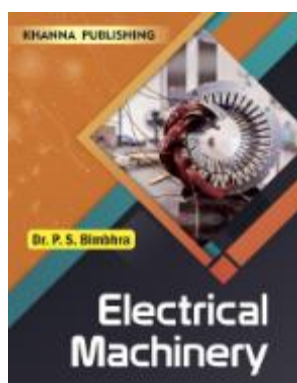
ISBN: 9783319732770

Subject Terms: Control of power inverters Renewable energy Smart grid integration DC-AC Inverters Microgeneration systems

621.314.5 VUK-G

177218; CES

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621.313 BIM-E

177203; CL

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[Back to Content](#)



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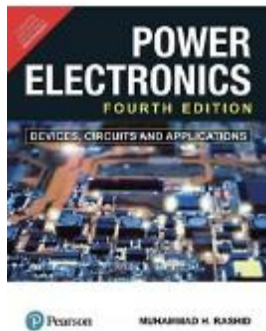
ISBN: 9789339212148

Subject Terms: Transmission Load studies Voltage Conductors Flow

621.3.016.2:518.5 STE-E

177173; CL

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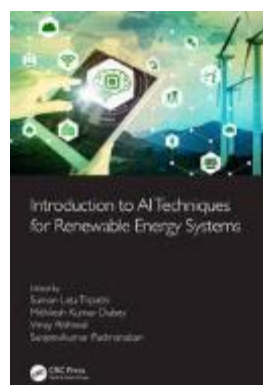
ISBN: 9789332584587

Subject Terms: Electronic circuits Electronics equipment Waveforms Switch specifications Power modules Intelligent modules

621.311 RAS-P

177211; CL

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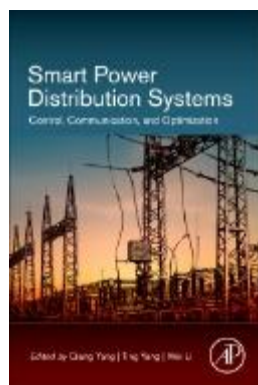
ISBN: 9780367610920

Subject Terms: Solar photovoltaic system Smart energy systems AI-based renewable energy Predictive maintenance Fault mitigation technique

681.3:502.174.3 -INT

177252; CL

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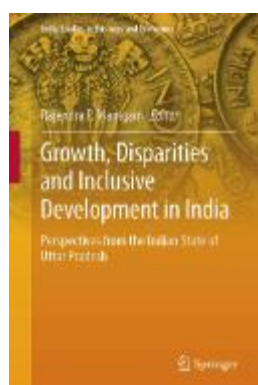
Subject Terms: Dynamic energy management Hybrid AC/DC distribution Microgrid communication system Optimal energy dispatch Renewable energy source

621.316.1 -SMA

177219; CES

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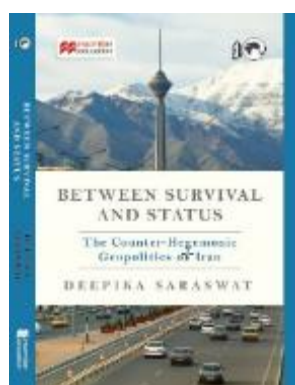
ISBN: 9789811364457

Subject Terms: Inclusive growth Inclusive development Agricultural development Industrial development Development policy

330.35(540) -GRO

177215; CL

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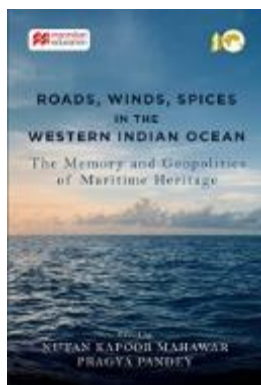
ISBN: 9789354550706

Subject Terms: Critical geopolitics Ramifications Islamic revolution Geopolitics of integration Populism of ahmadinejad

327(55) SAR-B

177198; CL

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Subject Terms: Geopolitics Indian ocean Maritime heritage Marine trade Project mausam

551.46:930.2(267) -ROA

177174; CL

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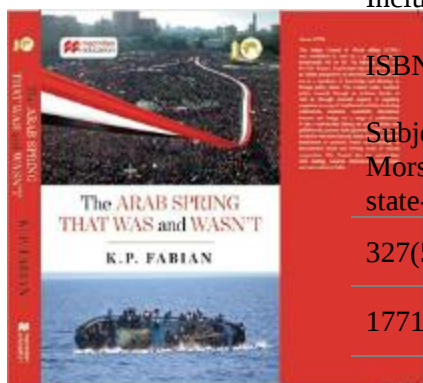
ISBN: 9781108710749

Subject Terms: Ratings Recommendations Growing a platform Plattform pricing Network goods Product rating

334.7 BEL-E

177255-177256; CL; HSS

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Arab spring that was and wasn't by K. P. Fabian, New Delhi: Macmillan Education, 2022. - .

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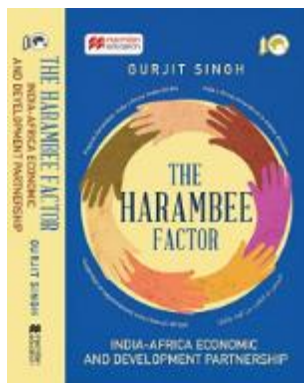
Subject Terms: Tunisian history-Princess Dido Tunisian troubled march Egypt Morsi Syria Libya Yemen-horror Algeria Bahrain Morocco Sudan Islamic state-Saudi Arabia

327(5-15) FAB-A

177109; CL

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[Back to Content](#)



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Subject Terms: India-Africa forum summits India-Africa cooperation India-Africa relations India-Africa trade expansion Vasudhaiva Kutumbakam

339.92(540:6) SIN-T

177175; CL

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Subject Terms: Coupling methods Queueing theory Reliability theory Simulation Coupling

519.2 ROS-I

177185; CL

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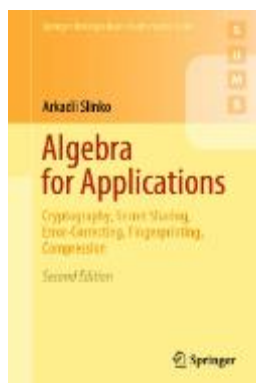
ISBN: 9783030205058

Subject Terms: Partial differential equations linear algebra Algebraic equations Linear combinations Vector spaces

517.9 STR-D

177262; CL

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- Public key cryptography Elgamal cryptosystem Digital signature Huffman compression code Diffie - Hellman Prefix codes Euler totient function.

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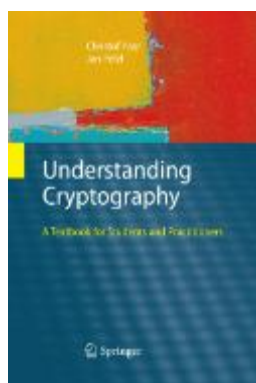
ISBN: 9783030440732

Subject Terms: Public key cryptography Elgamal cryptosystem Digital signature Huffman compression code Diffie - Hellman Prefix codes Euler totient function

512 SLI-A

177250; CL

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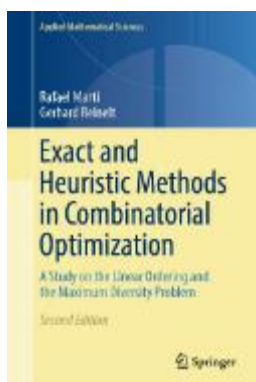
ISBN: 9783642041006

Subject Terms: Modular arithmetic Stream ciphers Data encryption standard Advanced encryption standard Digital signatures Hash functions

681.188 PAR-U

177258; CL

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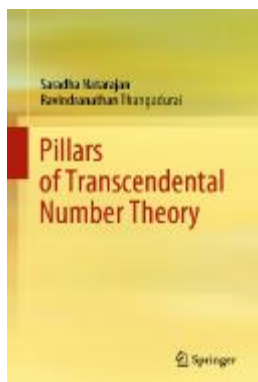
Subject Terms: LOP methods Binary problems Permutation Construction phase Improvement phase

519.165 MAR-E

177172; CL

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[Back to Content](#)



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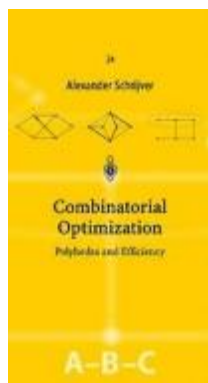
ISBN: 9789811541544

Subject Terms: Theorem of gelfond Schneider Roth's theorem Bakers' theorem Subspace theorem

511.46 NAT-P

177202; CL

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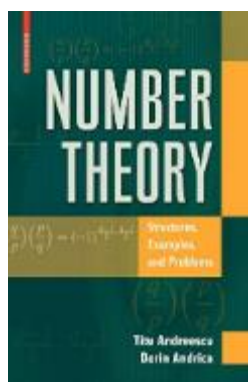
ISBN: 9783540443896

Subject Terms: Graph theory Integer programming Polyhedral combinatorics Polynomial time algorithms Combinatorics

519.16 SCH-C

177285-177287; CL

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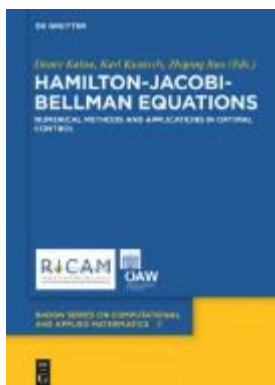
ISBN: 9780817632458

Subject Terms: Arithmetic Mersenne prime Pigeonhole principle Combinatorics Binomial

511.2 AND-N

177187; CL

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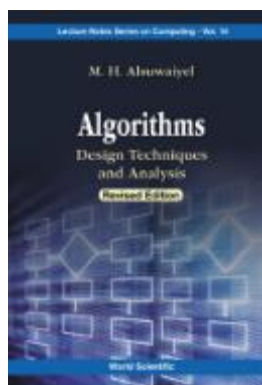
ISBN: 9783110542639

Subject Terms: Differential equations Improving policies Control theory - Research Partial - Numerical solutions Adaptive controller Semi-lagrangian schemes

517.977 -HAM

177214; CL

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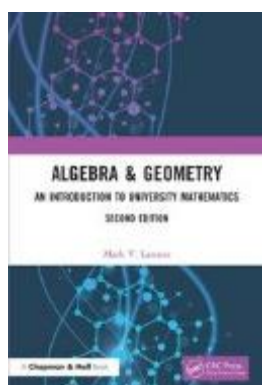
ISBN: 9781944660215

Subject Terms: Binary search Sorted list Time complexity Disjoint sets Horner's rule

510.5 ALS-A

177189; CL

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Subject Terms: Quadratic equations Mathematical creativity Equivalence relations Euler's formula Polynomials

512:514 LAW-A

177190; CL

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Subject Terms: Transcendental classes Parallel taxonomies Multivariable rational functions Multivariable coefficient asymptotics Combinatorial calculus

519.1 MIS-A

177167; CL

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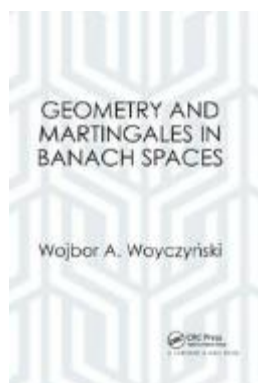
ISBN: 9780367486884

Subject Terms: Real numbers Topology Fourier Series Limits and Continuity Differentiation

517.51 STO-I

177186; CL

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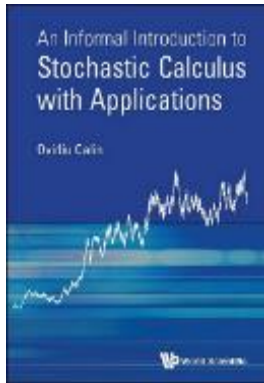
Subject Terms: Cotypes Spaces of rademacher Beck convexity Marcinkiewicz-Zygmund theorem Radon-Nikodym theorem

517.982.22 WOY-G

177284; CL

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[Back to Content](#)



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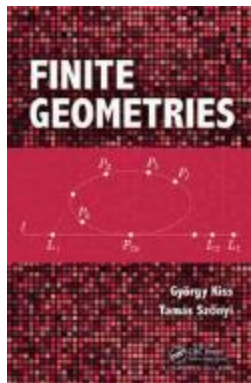
ISBN: 9781944660277

Subject Terms: Noisy pendulum White noise Cooling Convergence theorems Brownian motion

519.21 CAL-A

177191; CL

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Subject Terms: Projective planes Generalized polygons Hyperovals Coding theory and cryptography (k, n)-arcs

514:519.45 KIS-F

177168; CL

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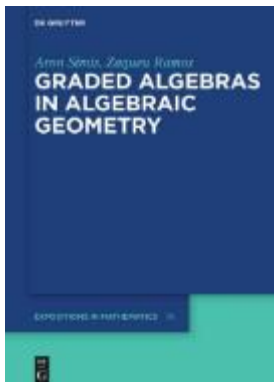
Subject Terms: Bolzano-Weierstrass theorem Monotone Riemann-Stieltjes integral Mean Value Coefficients

517.1 KIR-A

177195; CL

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[Back to Content](#)



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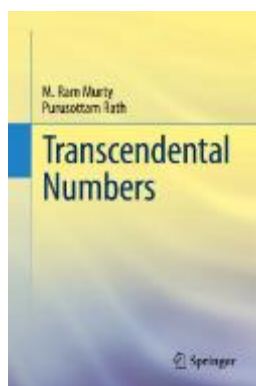
ISBN: 9783110637540

Subject Terms: Intersection theory Terminology Gradient ideal Homogeneous divisor Homaloidal nets

512.7 SIM-G

177196; CL

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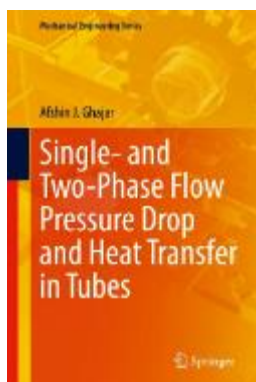
Subject Terms: Number theory Algebra Geometry Algebraic topology Transcendental numbers

511.46 MUR-T

177201; CL

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Mechanical Engineering



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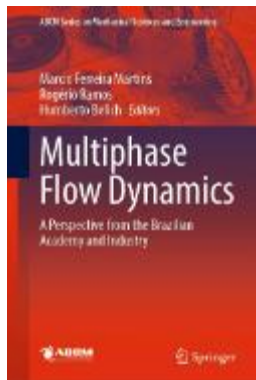
ISBN: 9783030872809

Subject Terms: Annular flow Heat transfer Void fraction Stratified flow Inlet configuration

536.24 GHA-S

177226; CL

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ISBN: 9783030934552

Subject Terms: Chemically reacting flows Multiphase systems Flows with phase change Two-fluid flows Multiphase flow
532 -MAR

177224; CL

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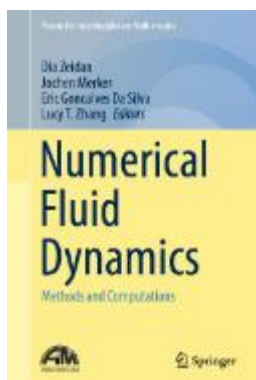
ISBN: 9789811539909

Subject Terms: Heat transfer Conduction heat transfer Convective heat transfer Radiation heat exchange Thermal radiation

536.2:621.4 KAR-H

177260-177261; CL

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ISBN: 9789811696640

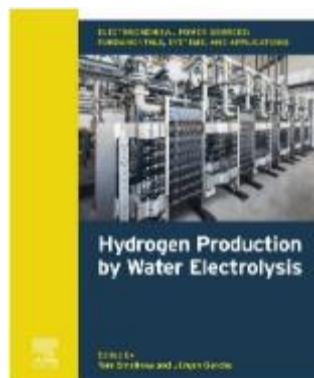
Subject Terms: Mathematical methods Analysis Computational simulations Uncertainty in numerical fluids Verification and validation in fluids

532.5 -NUM

177225; ME

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[Back to Content](#)



Electrochemical power sources fundamentals, systems, and applications: hydrogen production by water electrolysis edited by Tom Smolinka and Jurgen Garche, Amsterdam: Elsevier, 2022. - Energy system Hydrogen in global energy Thermodynamics Cell efficiencies Metal oxide water Alkaline electrolysis Seawater electrolysis.

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ISBN: 9780128194249

Subject Terms: Energy system Hydrogen in global energy Thermodynamics Cell efficiencies Metal oxide water Alkaline electrolysis Seawater electrolysis

661.96:621.357 -ELE

177229; CL

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Geometrical dimensioning and tolerancing for design, manufacturing and inspection a handbook for geometrical product specification using ISO and ASME standards by Georg Henzold, 3rd ed..Oxford: Butterworth-Heinemann, 2021. - Geometrical tolerancing Tolerancing of edges Tolerancing of movable assemblies Tolerancing of edges Procedure for tolerancing.

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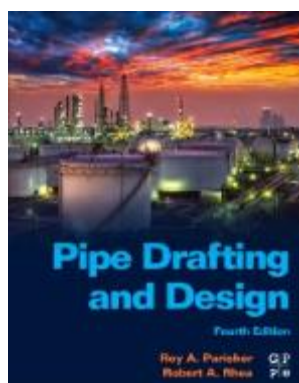
ISBN: 9780128240618

Subject Terms: Geometrical tolerancing Tolerancing of edges Tolerancing of movable assemblies Tolerancing of edges Procedure for tolerancing

621.71 HEN-G

177182; CL

[Click here for more details.](#)



Pipe drafting and design by Roy A. Parisher and Robert A. Rhea, 4th ed..Massachusetts: Gulf Professional Publishing, 2022. - Piping-Design and construction CAD techniques Piping systems Codes and specifications 3D Piping models.

Includes bibliography and index (p.477-480)

ISBN: 9780128220474

Subject Terms: Piping-Design and construction CAD techniques Piping systems Codes and specifications 3D Piping models

621.643 PAR-P

177183-177184; CL; ME

[Click here for more details.](#)



Surface engineering processes and applications edited by K. N. Strafford... (et al.), Boca Raton: CRC Press, 1995. - Ceramic coatings Glow discharge plasmas Biomedical applications Optical thin films Plasma nitriding Laser hardfacing.

Includes bibliography and index (p. 347-349)

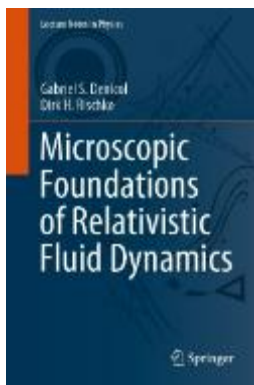
ISBN: 9781566761543

Subject Terms: Ceramic coatings Glow discharge plasmas Biomedical applications Optical thin films Plasma nitriding Laser hardfacing

621.79 -SUR

177230-177231; CL; ME

[Click here for more details.](#)



Microscopic foundations of relativistic fluid dynamics by Gabriel S. Denicol and Dirk H. Rischke, Cham: Springer, 2021. - Lecture notes in physics.

Include bibliography and index (p. 291-292)

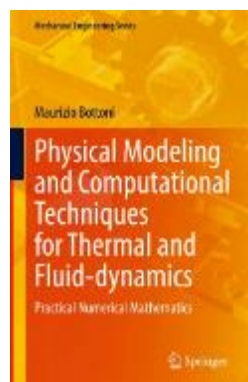
ISBN: 9783030820756

Subject Terms: Current Tensor Acausality Local rest Motion

532.5 DEN-M

177098; CL

[Click here for more details.](#)



Physical modeling and computational techniques for thermal and fluid-dynamics practical numerical mathematics by Maurizio Bottoni, Cham: Springer, 2022. - Mechanical engineering series.

Include bibliography and index (p. 503-524)

ISBN: 9783030797164

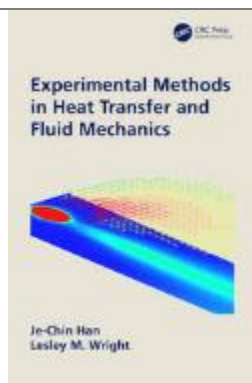
Subject Terms: Runge Kutta methods Differential equation Laplace equation Poisson-like equation ROMC

536.7:532.5 BOT-P

177099; CL

[Click here for more details.](#)

[Back to Content](#)



Experimental methods in heat transfer and fluid mechanics by Je-Chin Han and Lesley M. Wright, Boca Raton: CRC Press, 2020. - .

Includes bibliography and index (p. 362-368)

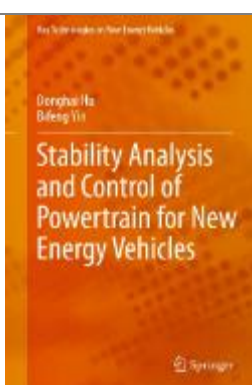
ISBN: 9780367497804

Subject Terms: Convection Radiation Transducers Flux Thermal expansion

532.5:536.24 HAN-E

177130; CL

[Click here for more details.](#)



Stability analysis and control of powertrain for new energy vehicles by Donghai Hu and Bifeng Yin, Singapore: Springer, 2022. - Key technologies on new energy vehicles.

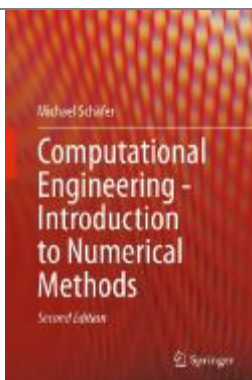
ISBN: 9789811650505

Subject Terms: Electric vehicles-Power trains Mechanical engineering Mechatronics Robotics System theory Automatic control

629.017:621.3 HU-S

177133; CL

[Click here for more details.](#)



Computational engineering introduction to numerical methods by Michael Schäfer, 2nd ed..Cham: Springer, 2022. - .

Includes bibliography and index (p. 359-373)

ISBN: 9783030760267

Subject Terms: Kinematics Material laws Heat transfer Hyperelasticity Beams

681.3:517.949 SCH-C

177134; CL

[Click here for more details.](#)



Wheeled mobile robot control theory, simulation, and experimentation by Nardenio Almeida Martins and Douglas Wildgrube, Cham: Springer, 2022. - Studies in Systems, Decision and Control.

Includes bibliography and index (207-209p.)

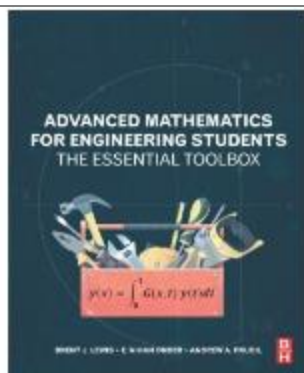
ISBN: 9783030779115

Subject Terms: Robotics Artificial intelligence Automation Vibration Automatic control Civil engineering Dynamics

621.86.032:007.52 MAR-W

177148; CL

[Click here for more details.](#)



Advanced mathematics for engineering students the essential toolbox by Brent J. Lewis, E. Nihan Onder, Andrew A. Prudil, Oxford: Butterworth-Heinemann, 2022. - Fourier transform methods Finite element Numerical analysis Complex analysis Calculus of variations.

Includes bibliography and index (p. 399-404)

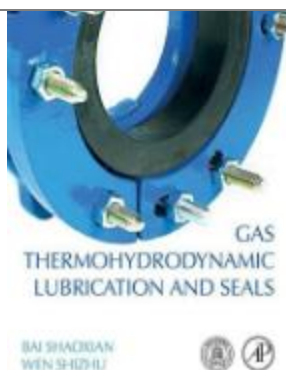
ISBN: 9780128236819

Subject Terms: Fourier transform methods Finite element Numerical analysis Complex analysis Calculus of variations

51:62 LEW-A

177193; CL

[Click here for more details.](#)



Gas thermohydrodynamic lubrication and seals by Bai Shaoxian and Wen Shizhu, San Diego: Elsevier, 2019. - Reynolds equation Polar coordinate system Performace Friction Boundary conditions.

Includes bibliography and index (p.219-224)

ISBN: 9780128167168

Subject Terms: Reynolds equation Polar coordinate system Performace Friction Boundary conditions

621.822:532.5+536 SHA-G

177194; CL

[Click here for more details.](#)

[Back to Content](#)

Management Studies



Amazon how the world's most relentless retailer will continue to revolutionize commerce by Natalie Berg and Miya Knights, 2nd ed. New York: Kogan Page, 2022. - Amazon-golden age Digital transformation Artificial intelligence Supply chain complexity Digital customer experience.

Includes bibliography and index (296-313p.)

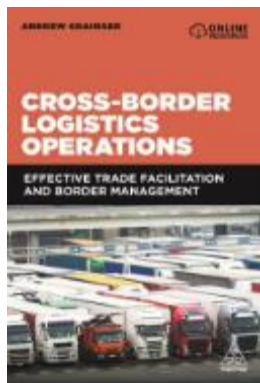
ISBN: 9781398601420

Subject Terms: Amazon-golden age Digital transformation Artificial intelligence Supply chain complexity Digital customer experience

658.87 BER-A

177288; MS

[Click here for more details.](#)



Cross-border logistics operations effective trade facilitation and border management by Andrew Grainger, London: Kogan Page, 2021. - Business logistics Customs administration Customs declarations Prevailing trade Import duties.

Includes bibliography and index (266-277p.)

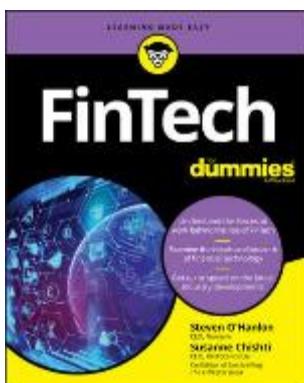
ISBN: 9781789666724

Subject Terms: Business logistics Customs administration Customs declarations Prevailing trade Import duties

658.788 GRA-C

177289; MS

[Click here for more details.](#)



FinTech by Susanne Chishti... (et al.), New Jersey: John Wiley & Sons, 2020. - Finance - Technological innovations Banks Banking Financial services industry Financial industry.

Includes bibliography and index (p. 361-374)

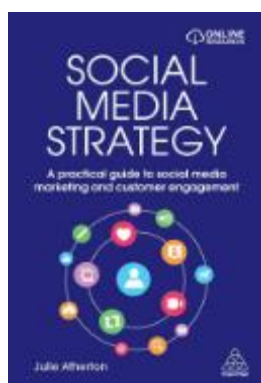
ISBN: 9788126515929

Subject Terms: Finance - Technological innovations Banks Banking Financial services industry Financial industry

658.14/.17:681.3 -FIN

177290-177291; CL; MS

[Click here for more details.](#)



Social media strategy a practical guide to social media marketing and customer engagement by Julie Atherton, London: Kogan Page, 2020. - .

Includes bibliography and index (p. 219-252)

ISBN: 9780749497071

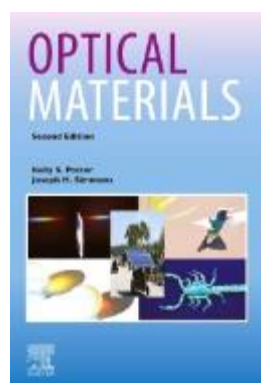
Subject Terms: Lives Accountability Traditional marketing Brands Goals

316.77 ATH-S

177159; CL

[Click here for more details.](#)

Optics & Photonics Centre



Optical materials by Kelly S. Potter and Joseph H. Simmons, 2nd ed..Cambridge: Elsevier, 2021. - .

Include bibliography and index (p. 477-495)

ISBN: 9780128186428

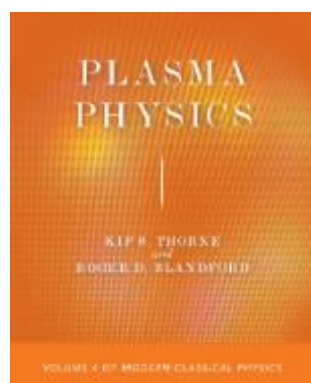
Subject Terms: Mathematical wave Plasma frequency Superconductor Photochromic Earth

535.8 POT-O

177106; CL

[Click here for more details.](#)

Physics



Plasma physics by Kip S. Thorne and Roger D. Blandford, Princeton: Princeton University Press, 2021. - Modern classical physics.

Includes bibliography and index (p. 1189-1220)

ISBN: 9780691215501

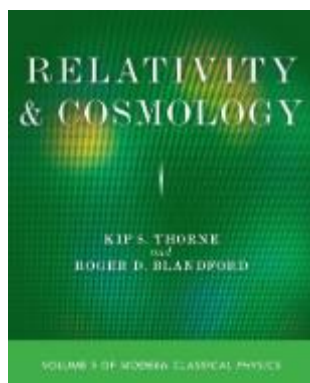
Subject Terms: MHD approximation Conservation Fusion Perturbation Vorticity

533.9 THO-P

177123; CL

[Click here for more details.](#)

[Back to Content](#)



Relativity and cosmology by Kip S. Thorne and Roger D. Blandford, Princeton: Princeton university press, 2021. - Modern classical physics.

Includes bibliography and index (p. 1500-1544)

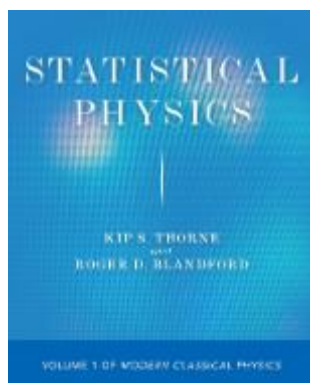
ISBN: 9780691207391

Subject Terms: Vector Tensors Spacetime Coefficients Particle

530.12:524.8 THO-R

177124; CL

[Click here for more details.](#)



Statistical physics by Kip S. Thorne and Roger D. Blandford, Princeton: Princeton University Press, 2021. - Modern classical physics.

Includes bibliography and index (p. 347-384)

ISBN: 9780691206127

Subject Terms: Tensor Kinetics Algebra Notation Momentum

531.19 THO-S

177125; CL

[Click here for more details.](#)



Computational photonic sensors edited by Mohamed Farhat O. Hameed and Salah Obayya, Cham: Springer, 2019. - .

Includes bibliography and index (p. 445-452)

ISBN: 9783319765556

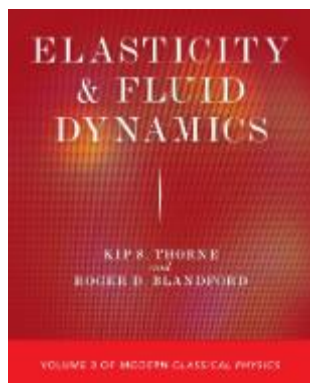
Subject Terms: Plasmon resonance Biosensing Silicon Spherical grids Fiber

535-1:621.382 HAM-C

177126; CL

[Click here for more details.](#)

[Back to Content](#)



Elasticity and fluid dynamics by Kip S. Thorne and Roger D. Blandford, Princeton: Princeton University Press, 2021. - Modern classical physics.

Include bibliography and index (p. 975-1014)

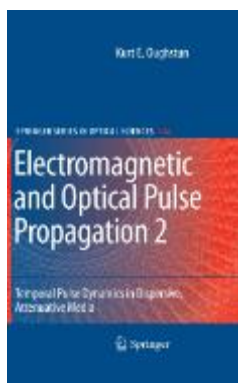
ISBN: 9780691207346

Subject Terms: Strain Displacement Stress tensor Moduli Pendulum

539.52:532.5 THO-E

177127; CL

[Click here for more details.](#)



Electromagnetic and optical pulse propagation by Kurt E. Oughstun, 2nd ed..Cham: Springer, 2019. - Series in optical sciences.

Include bibliography and index (p. 723-737)

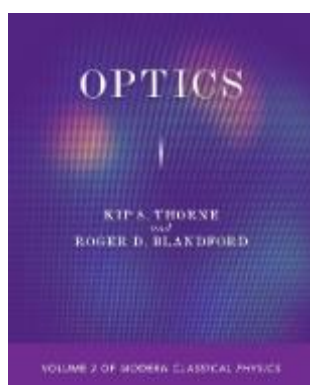
ISBN: 9783030208370

Subject Terms: Microscopic Maxwell equation Relativity Linear momentum Potentials Index

537.87 OUG-E

177128; CL

[Click here for more details.](#)



Optics by Kip S. Thorne and Roger D. Blandford vol 2 of modern classical physics, Princeton: Princeton University Press, 2021. - Modern classical physics.

Includes bibliography and index (p. 569-596)

ISBN: 9780691207360

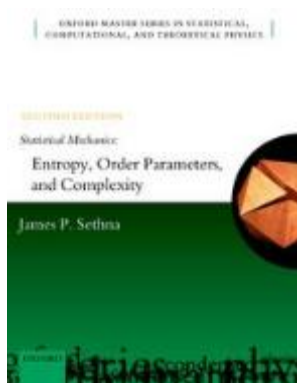
Subject Terms: Dispersion relation Homogeneous mixture Paraxial system Lenses Mirror

535 THO-O

177129; CL

[Click here for more details.](#)

[Back to Content](#)



Statistical mechanics entropy, order parameters, and complexity by James P. Sethna, 2nd ed..Oxford: Oxford University Press, 2021. - Oxford master series in physics.

Includes bibliography and index (p. 419-464)

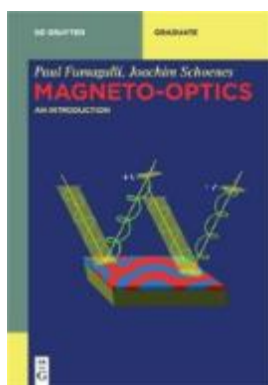
ISBN: 9780198865254

Subject Terms: Ideal gas Asymptotic series Photon Space Flocking

531.19 SET-S

177141-177142; CL; PH

[Click here for more details.](#)



Magneto-optics an introductio by Paul Fumagalli and Joachim Schoenes, Berlin: De Gruyter, 2022. - De Gruyter Textbook.

Includes bibliography and index (223-241p.)

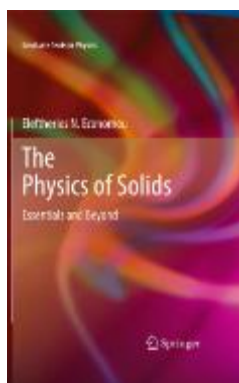
ISBN: 9783110635225

Subject Terms: Solid state optics Complex wave vector Polarization state Dispersion-classical theory Microscopic model Magnetic semiconductor

537.632 FUM-M

177135-177136; CL; PH

[Click here for more details.](#)



Physics of solids essentials and beyond by Eleftherios N. Economou, Heidelberg: Springer-Verlag, 2020. - Jellium Model Atomic orbitals Crystal Superconductivity Statistical mechanics.

Include bibliography and index (p.837-865)

ISBN: 9783662609965

Subject Terms: Jellium Model Atomic orbitals Crystal Superconductivity Statistical mechanics

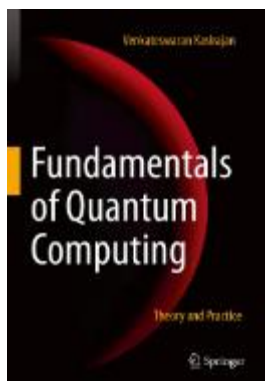
539.2 ECO-P

177221; CL

[Click here for more details.](#)

[Back to Content](#)

School of Artificial Intelligence



Fundamentals of quantum computing theory and practice by Venkateswaran Kasirajan, Cham: Springer, 2021. - Quantum information systems Qubits Quantum algorithms Quantum supremacy Quantum communications.

Includes bibliography and index (p. 457-463)

ISBN: 9783030636913

Subject Terms: Quantum information systems Qubits Quantum algorithms Quantum supremacy Quantum communications

530.145:681.3 KAS-F

177275; CL

[Click here for more details.](#)



Introduction to deep learning for healthcare by Cao Xiao and Jimeng Sun, Cham: Springer, 2021. - Deep neural networks Clinical predictive model Autoencoder Drug discovery Embedding methods Memory networks Generative models.

Includes bibliography and index (p. 223-232)

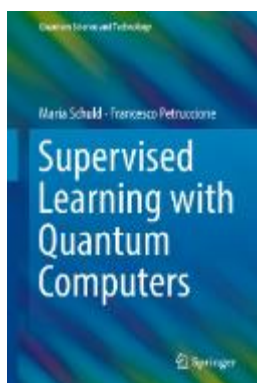
ISBN: 9783030821838

Subject Terms: Deep neural networks Clinical predictive model Autoencoder Drug discovery Embedding methods Memory networks Generative models

681.3:61 XIA-A

177232; CL

[Click here for more details.](#)



Supervised learning with quantum computers by Maria Schuld and Francesco Petruccione, Cham: Springer, 2018. - Quantum theory Machine learning Artificial intelligence Pattern perception Spintronics.

Includes bibliography and index (p. 281-287)

ISBN: 9783319964232

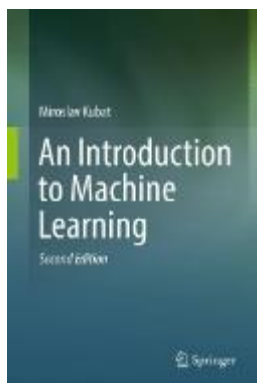
Subject Terms: Quantum theory Machine learning Artificial intelligence Pattern perception Spintronics

530.145:681.3 SCH-S

177266; CL

[Click here for more details.](#)

[Back to Content](#)



Introduction to machine learning by Miroslav Kubat, 3rd ed..Cham: Springer, 2021. - Bayesian classifiers Neural networks Genetic algorithms Decision trees Statistical significance.

Include bibliography and index (p.457-458)

ISBN: 9783030819347

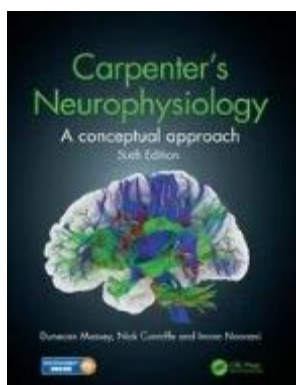
Subject Terms: Bayesian classifiers Neural networks Genetic algorithms Decision trees Statistical significance

681.3 KUB-I

177233-177234; CL; SAI

[Click here for more details.](#)

School of Biological Sciences



Carpenter's neurophysiology a conceptual approach by Dunecan Massey, Nick Cunniffe and Imran Noorani, 6th ed..Oxon: CRC Press, 2020. - .

Include bibliography and index (p. 309-332)

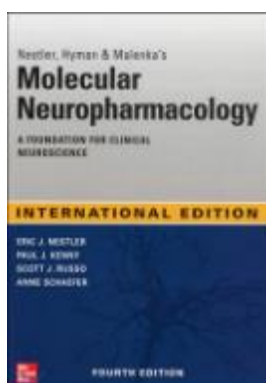
ISBN: 9780367340605

Subject Terms: Neurons Skin Motor system Cortex Posture

612.8 MAS-C

177077; CL

[Click here for more details.](#)



Molecular neuropharmacology a foundation for clinical neuroscience by Eric J. Nestler... (et al.), 4th ed..New York: McGraw-Hill, 2020. - .

Includes bibliography and index (p. 547-583)

ISBN: 9781260469042

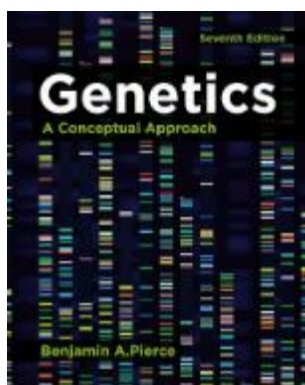
Subject Terms: Drug Action Neural system Internal Milieu Bipolar disorder Neuroinflammation

612.8 -MOL

177078; CL

[Click here for more details.](#)

[Back to Content](#)



Genetics a conceptual approach by Benjamin A. Pierce, 7th ed..New York: Macmillan, 2020. - .

Includes bibliography and index (p. 817-944)

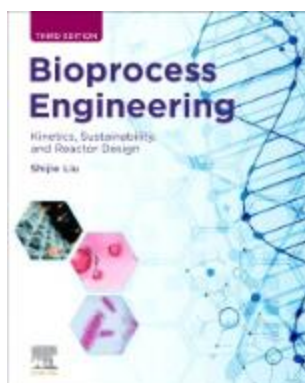
ISBN: 9781319308315

Subject Terms: Nonrandom mating Reproduction Homologous characteristics
Phylogenetic trees Variation

575 PIE-G

177137; CL

[Click here for more details.](#)



Bioprocess engineering kinetics, sustainability, and reactor design by Shijie Liu, 3rd ed..Cambridge: Elsevier, 2020. - .

Includes bibliography and index (p. 935-943)

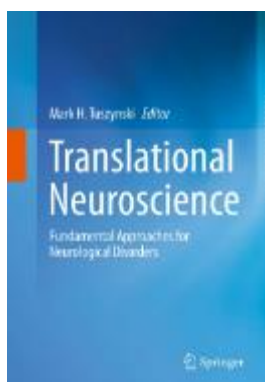
ISBN: 9780128210123

Subject Terms: Living cell Green chemistry Viruses Batch reactor Yield factor

577.1 LIU-B

177138; CL

[Click here for more details.](#)



Translational neuroscience fundamental approaches for neurological disorder edited by Mark H. Tuszynski, New York: Springer, 2016. - .

Includes bibliography and index (p. 578-584)

ISBN: 9781489976529

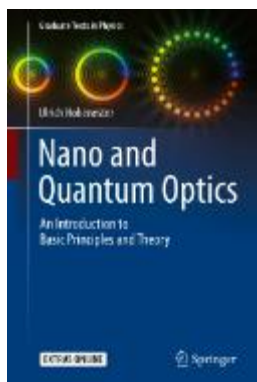
Subject Terms: AAV vector Amyotrophic Metabolism Inborn Pain

616.8-056.7 -TRA

177081-177082; CL; SBS

[Click here for more details.](#)

Sensors, Instrumentation and Cyber Physical System Engineering



Nano and quantum optics an introduction to basic principles and theory by Ulrich Hohenester, Cham: Springer, 2020. - Summetry and forces Green's function Material properties Particle plasmons Correlation functions Photon noise.

Includes bibliography and Index (p.651-665)

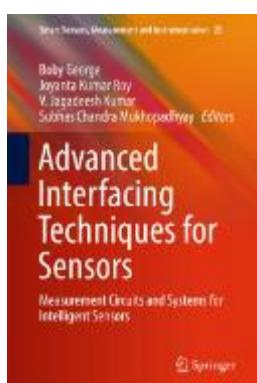
ISBN: 9783030305062

Subject Terms: Summetry and forces Green's function Material properties Particle plasmons Correlation functions Photon noise

535.14 HOH-N

177253; SENSE

[Click here for more details.](#)



Advanced interfacing techniques for sensors measurement circuits and systems for intelligent sensors edited by Bobby George... (et.al.), Cham: Springer, 2017. - Intelligent instrumentation Interfacing electronics Signal conditioning Analog signal processing Readout circuits.

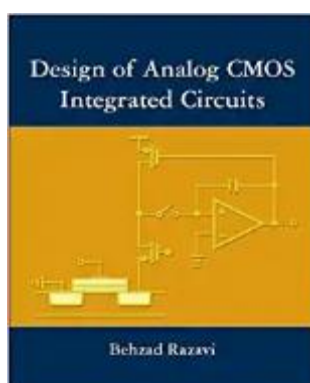
ISBN: 9783319553689

Subject Terms: Intelligent instrumentation Interfacing electronics Signal conditioning Analog signal processing Readout circuits

621.38:681.56 -ADV

177270; CL

[Click here for more details.](#)



Design of analog CMOS integrated circuits by Behzad Razavi, 2nd ed..Chennai: McGraw Hill, 2018. - .

Includes bibliography and index (p. 774-782)

ISBN: 9789387067844

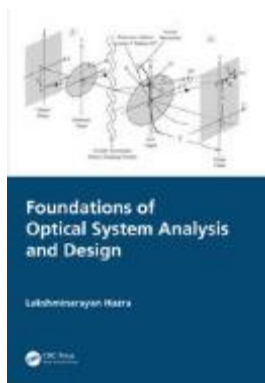
Subject Terms: CMOS device physics Differential amplifiers Noise Nanometer design studies Bandgap references Oscillators CMOS processing technology

621.382 RAZ-D

177277-177281; TB

[Click here for more details.](#)

[Back to Content](#)



Foundations of optical system analysis and design by Lakshminarayan Hazra, Boca Raton: CRC Press, 2022. - .

Includes bibliography and index (p. 726-746)

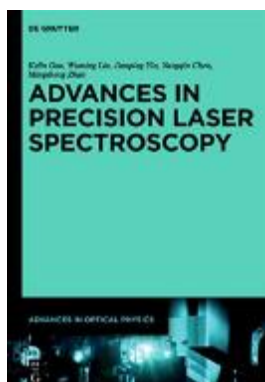
ISBN: 9781498744928

Subject Terms: Lenses Refraction Metamorphosis Wave equation Fermat's principle

535.317.2 HAZ-F

177121; SENSE

[Click here for more details.](#)



Advances in precision laser spectroscopy by Kulin Gao... (et al.), Berlin: De Gruyter, 2022. - Cold atoms physics Cold molecular physics Optical frequency standards Precision measurement Photonics.

Includes bibliography and index (p.387-388)

ISBN: 9783110304299

Subject Terms: Cold atoms physics Cold molecular physics Optical frequency standards Precision measurement Photonics

537.533 -ADV

177181; CL

[Click here for more details.](#)

School of Public Policy



Data science by John D. Kelleher and Brendan Tierney, London: MIT Press, 2018. - MIT press essential knowledge series.

Includes bibliography and index (p. 256-264)

ISBN: 9780262535434

Subject Terms: Standards Privacy Science ecosystem Quantitative research Decision making

681.3 KEL-D

177151; SPP

[Click here for more details.](#)

[Back to Content](#)



Translating food sovereignty cultivating justice in an age of transnational governance by Matthew C. Canfield, Stanford: Stanford University Press, 2022. - .

Include bibliography and index (p. 203-264)

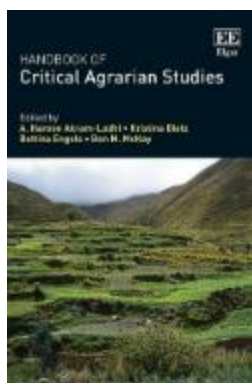
ISBN: 9781503631304

Subject Terms: Translocal Networks Agriculture Power Generations

351.778.2 CAN-T

177094-177095; CL; SPP

[Click here for more details.](#)



Handbook of critical agrarian studies edited by A. Haroon Akram-Lodhi...(et al.), Northampton: Edward Elgar Publishing, 2021. - .

Includes bibliography and index(p. 687-713)

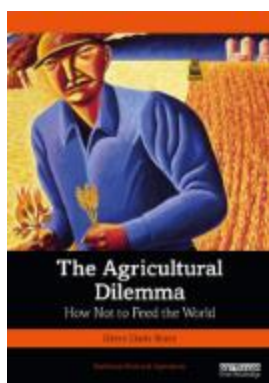
ISBN: 9781788972451

Subject Terms: Regimes History Labour Intersectionality Financialization

RL-HB 301.151(021) -HAN

177096-177097; CL; SPP

[Click here for more details.](#)



Agricultural dilemma how not to feed the world by Glenn Davis Stone, New York: Routledge, 2022. - Earthscan food and agriculture.

Includes bibliographical references and index (p. 222-232)

ISBN: 9781032260457

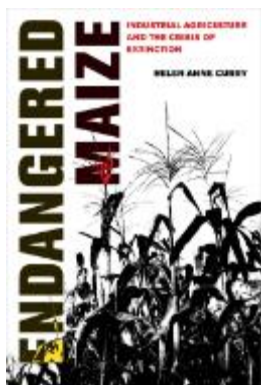
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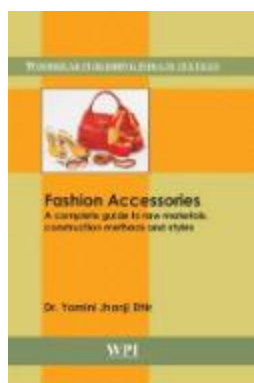
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177276; CL

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Fundamentals of printed textile design by Alex Russell, 2nd ed..London: Bloomsbury publishing, 2022. - Digital revolution Design composition Design and industry Design style and content Building portfolios.

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Mukesh Kumar Singh, Annika Singh



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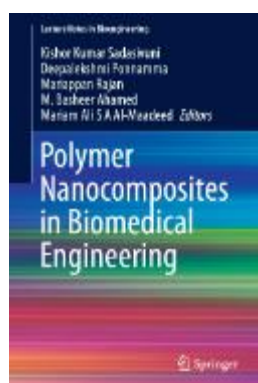
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