

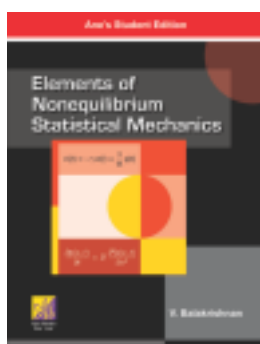
Mathematical Physics with Applications, Problems and Solutions

V. Balakrishnan

Contents

1. Warming up: Functions of a real variable
2. Gaussian integrals, Stirlings formula, & some integrals
3. Some more functions
4. Generalized functions
5. Vectors and tensors
6. Vector calculus
7. A bit of fluid dynamics
8. Some more vector calculus
9. A bit of electromagnetism and special relativity
10. Linear vector spaces
11. A look at matrices
12. More about matrices
13. Infinite-dimensional vector spaces
14. Linear operators on a vector space
15. Operator algebras and identities
16. Orthogonal polynomials
17. Fourier series
18. Fourier integrals
19. Discrete probability distributions
20. Continuous probability distributions
21. Stochastic processes
22. Analytic functions of a complex variable
23. More on analytic functions
24. Linear response and analyticity
25. Analytic continuation and the gamma function
26. Multivalued functions and integral representations
27. Mobius transformations
28. Laplace transforms
29. Green function for the Laplacian operator
30. The diffusion equation
31. The wave equation
32. Integral equations, Bibliography & Further Reading, Index.

9789386761118 • 878 (Hb) • 2018 • ₹ 2495.00

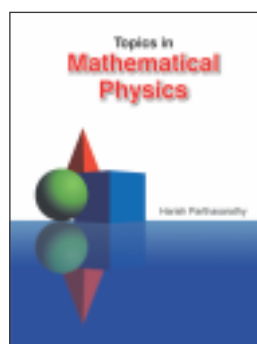


Elements of Nonequilibrium Statistical Mechanics

V. Balakrishnan

Contents: Prologue 1. Introduction 2. The Langevin equation 3. The fluctuation-dissipation relation 4. Autocorrelation of the velocity 5. Markov processes 6. The Fokker-Planck equation 7. The diffusion equation 8. Diffusion in a finite region 9. Brownian motion 10. First-passage time 11. The displacement 12. Phase space Fokker-Planck equation 13. Diffusion in a potential 14. Diffusion in a magnetic field 15. Kubo-Green formulas 16. Dynamic mobility 17. The generalized Langevin equation, Epilogue, Appendixes, Suggested Reading.

9789380156255 • 336 (Hb) • 2017 • ₹ 495.00

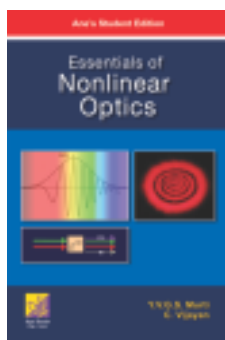


Topics in Mathematical Physics

Harish Parthasarathy

Contents: 1. Circuit Theory, 2. Classical Mechanics, 3. Electrodynamics, 4. Quantum Mechanics, 5. Differential Equations, 6. Random Process, 7. Relativity, 8. General Signal Theory, 9. Signal and Systems, 10. Fluid Dynamics, 11. Linear Algebra, 12. Group Theory, 13. MATLAB Problems, 14. Partial Differential Equations, 15. Quantum Computation, 16. Experiments for Analog and Digital Communication Laboratory, 17. Miscellaneous problems and remarks on Signal Processing in Physical Models.

9788180521843 • 766 (Hb) • 2007 • ₹ 995.00

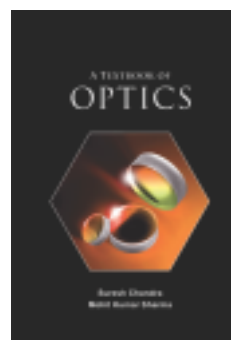


Essentials of Nonlinear Optics

Y.V.G.S. Murti
C. Vijayan

Contents: 1. From Optics to Photonics 2. A Phenomenological View of Nonlinear Optics 3. Symmetry and Susceptibility Tensors 4. Calculation of Non-Linear Susceptibilities 5. Nonlinear Wave Mixing Processes 6. Optical Phase Conjugation and Bistability 7. Self Focusing, Phase Modulation and Pulse Shaping 8. Mechanisms and Materials, Bibliography, References, Index

9789383656639 • 204 (Pb) • 2016 • ₹ 350.00

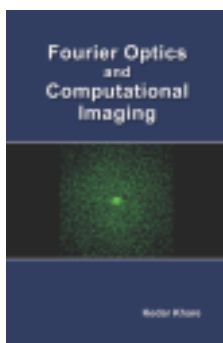


A Textbook of Optics

Suresh Chandra
Mohit Kumar Sharma

Contents: 1. Reflection 2. Refraction 3. Cardinal Points 4. Interference 5. Fresnel Diffraction 6. Fraunhofer Diffraction 7. Polarization 8. Lasers and Holography 9. Fiber Optics, Bibliography, Index

9789386761569 • 322 (Hb) • 2018 • ₹ 1995.00

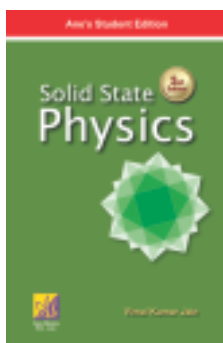


Fourier Optics and Computational Imaging

Kedar Khare

Contents: 1 Introduction 2 Fourier series and transform 3 Sampling Theorem 4 Operational introduction to Fast Fourier Transform 5 Linear systems formalism and introduction to inverse problems in Imaging 6 Constrained optimization methods for image recovery 7 Random processes 8 Geometrical Optics Essentials 9 Wave equation and introduction to diffraction of light 10 The angular spectrum method 11 Fresnel and Fraunhofer diffraction 12 Coherence of light fields 13 Polarization of light 14 Analysis of optical systems 15 Imaging from information point of view 16 Digital Holography 17 Phase retrieval from intensity measurements 18 Compact multi-lens imaging systems 19 PSF Engineering 20 Structural illumination imaging 21 Image reconstruction from projection data 22 Ghost Imaging 23 Appendix: Suggested Exercises.

9789385462290 • 312 (Hb) • 2016 • ₹ 1995.00

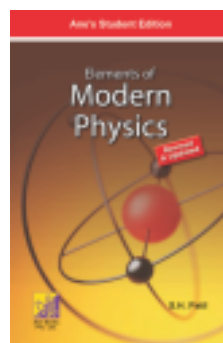


Solid State Physics 2/Ed.

Vimal Kumar Jain

Contents: 1. Crystal Structure 2. Chemical Bonding in Solids 3. Defects in Solids 4. Elements of Quantum Mechanics 5. X-Ray Diffraction 6. Lattice Vibrations 7. Thermal Properties of Solids 8. Free Electron Theory of Metal 9. Band Theory 10. Semiconductors 11. Dielectric Properties of Solids 12. Magnetic Properties of Matter 13. Magnetic Resonance 14. Superconductivity 15. Nanomaterials 16. Optical Properties 17. Semiconductor Devices, Bibliography, Index

9789384726010 • 544 (Pb) • 2016 • ₹ 495.00

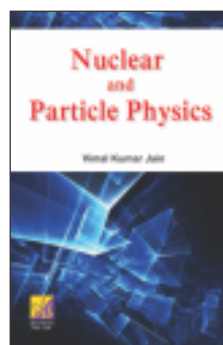


Elements of Modern Physics Revised & Updated

S.H. Patil

Contents: 1. Special Theory of Relativity 2. Introduction to Quantum Ideas 3. Elements of Quantum Theory 4. The One-Electron Atom 5. Atoms and Molecules 6. Interaction with External Fields 7. Quantum Statistics 8. Solid State Physics 9. The Nucleus 10. Elementary Particles 11. General Relativity and Cosmology

9789381162880 • 444 (Pb) • 2016 • ₹ 495.00

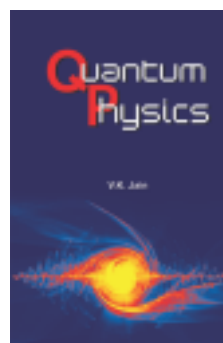


Nuclear and Particle Physics

Vimal Kumar Jain

Contents: Preface, Introduction, Elements of Quantum Mechanics, 3. Basic Nuclear Properties 4. Liquid Drop Model and Semi-Empirical Mass Formula 5. Nuclear Models 6. Radioactivity 7. Alpha Decay 8. Beta Decay 9. Gamma Decay 10. Two Nucleon Problem and Nuclear Force 11. Nuclear Reactions 12. Fission and Fusion 13. Nuclear Detectors 14. Elementary Particles 15. Quark Model, Solved Examples, Objective Type Questions, Exercises, Bibliography, Index

9789384726188 • 370 (Hb) • 2016 • ₹ 1695.00

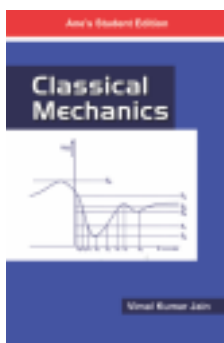


Quantum Physics

V.K. Jain

Contents: 1. Experimental Basis of Quantum Physics 2. Introduction to Quantum Physics 3. Mathematical Formulism 4. Solution of Schrodinger Equation in One Dimension 5. Schrodinger Equation in Three Dimensions 6. Approximation Methods 7. Scattering Theory 8. The Multiparticle Schrodinger Equation, Bibliography.

9789385462573 • 314 (Hb) • 2016 • ₹ 1495.00

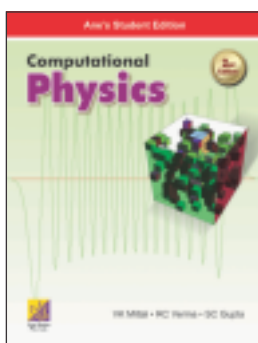


Classical Mechanics

Vimal Kumar Jain

Contents: Preface : 1. Introduction to Particle Dynamics 2. Lagrangian Formulation 3. Hamiltons Equations 4. Symmetry and Conservation Laws 5. Small Oscillation 6. Variational Basics of Mechanics-Hamiltons Principle 7. Motion in Non-Inertial Reference Frame 8. Canonical Transformations 9. Hamilton Jacobi Equation 10. Central Forces Motion 11. Rutherford Scattering 12. Dynamics of Rigid Body, Answers to Objective Type Questions, Selected Bibliography, Index.

9788190840613 • 296 (Pb) • 2017 • ₹ 295.00



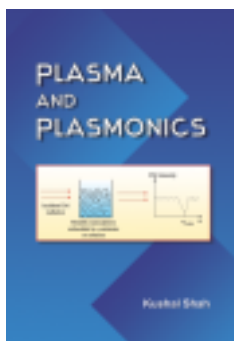
Computational Physics

2/Ed.

V.K. Mittal
R.C. Verma
S.C. Gupta

Contents: 1. Fundamentals of Problem Solving 2. Fortran 77 : Essential Features 3. Fortran 77 : Advanced Features 4. Computer Problems - I 5. Computer Problems - II 6. Computer Problems - III, Appendix 1 : Hardware, Appendix 2: Software, Appendix 3: Handling of Fortran Files, Appendix 4: Prgram Errors

9789380618692 • 340 (Pb) • 2015 • ₹ 395.00

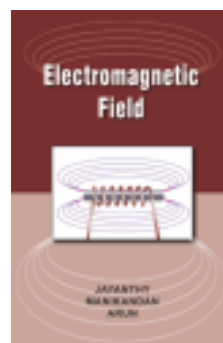


Plasma and Plasmonics

Kushal Shah

Contents: Preface, 1. Maxwell's Equations 2. Electromagnetic Properties of Metals 3. Plasma Kinetic Theory 4 Plasma Fluid Theory 5. Surface Plasmon Polaritons (SPP) 6 Spoof Surface Plasmons (SSP) 7 Advanced Topics in Plasmonics 8. Mathematical Foundations 9. Numerical Methods for Electromagnetics, Appendix: Legendre Polynomials, Bibliography

9789385462849 • 198 (Hb) • 2017 • ₹ 1495.00

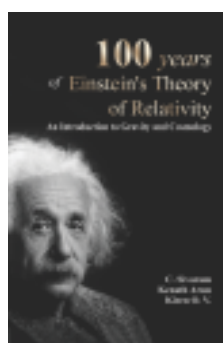


Electromagnetic Field

Jayanthi
Manikandan
Arun

Contents: UNIT 1 Static Electric Field. UNIT 2 Conductor and Dielectrics. UNIT 3 Static Magnetic Fields. UNIT 4 Magnetic Forces and Materials. UNIT 5 Time Varying Fields of Maxwells Equation.

9789385462627 • 364 (Pb) • 2018 • ₹ 350.00



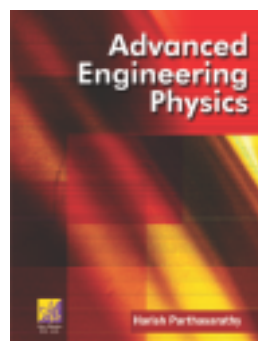
100 Years of Einstein's Theory of Relativity

An Introduction to Gravity and Cosmology

C. Sivaram
Kenath Arun
Kiren O.V.

Contents: Preface, 1. Main Aspects of Newtonian Gravity 2. Special Relativity 3. Equivalence Principle 4. Field Equations of General Relativity 5. Exact Solutions in General Relativity 6. The Classical Tests of General Relativity 7. Gravitational Waves 8. Astrophysical Implications of General Relativity 9. Black Holes 10. Cosmology 11. Alternate Models of the Universe 12. Quantization of the Gravitational Field 13. Unified Field Theories 14. The Future in Gravitational Physics, GR, and Cosmology, Appendix, References and Additional Reading, Index and Keywords

9789385462405 • 240 (Pb) • 2016 • ₹ 295.00

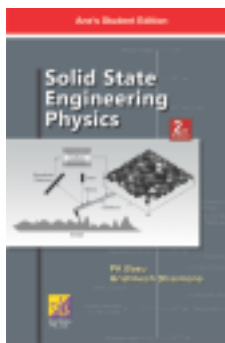


Advanced Engineering Physics

Harish Parthasarathy

Contents: 1. Mechanics 2. Fluid Dynamics 3. ElectroMagnetics 4. Relativity 5. Quantum Mechanics 6. Circuit Theory 7. Optics 8. Solid State Physics 9. Digital Signal Processing 10. Probability 11. Statistical Physics, Bibliography, Index.

9788180522512 • 710 (Pb) • 2009 • ₹ 595.00



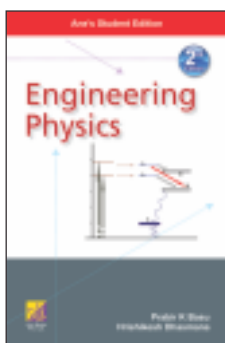
Solid State Engineering Physics

2/Ed.

Prabir K. Basu
Hrishikesh Dhasmana

Contents: Preface, 1. Crystal Structure 2. Quantum Physics 3. Free Electron Theory 4. Band Theory 5. Photoconductivity and Photovoltaics 6. Magnetic Materials 7. Superconductivity 8. Introduction to Nanotechnology 9. Preparation and Characterization of Nanoparticles Numericals, Assignment Questions, Index.

9789380156248 • 230 (Pb) • 2009 • ₹ 225.00



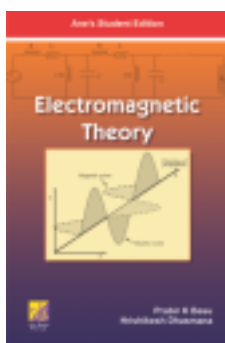
Engineering Physics

2/Ed

Prabir K. Basu

Contents: Preface 1. Interference 2. Diffraction 3. Polarization 4. Laser 5. Fiber Optics 6. Simple Harmonic Motion 7. Dielectrics 8. Electromagnetic Theory 9. Special Theory of Relativity 10. Nuclear Physics 11. Superconductivity, Appendix, Problems with Solution, Questions for Assignment, Index.

9788190832243 • 310 (Pb) • 2013 • ₹ 225.00

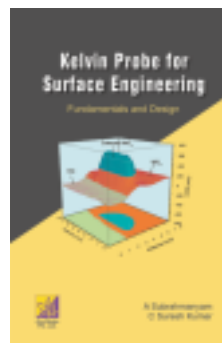


Electromagnetic Theory

Prabir K. Basu
Hrishikesh Dhasmana

Contents: 1. Electromagnetic Theory Fundamentals 2. Static Electric Fields 3. Steady Magnetic Fields 4. Time Varying Fields and Maxwell's Equations 5. Reflection and Refraction of E.M. Waves 6. Transmission Line 7. Introduction to Smith Chart, Numerical Problems, Sample Questions, Index

9789380156781 • 236 (Pb) • 2018 • ₹ 295.00



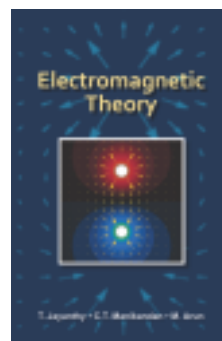
Kelvin Probe for Surface Engineering

Fundamentals and Design

A. Subrahmanyam
C. Suresh Kumar

About the Book: Conventionally, Kelvin probe is an established and powerful tool to measure the work function of metals and semiconductor surfaces; it is a non destructive technique; the surface remains virgin even after the measurement. With the emergence of nano and bio systems, the potential of kelvin probe is truly exceptional and still unexplored. The authors have designed and fabricated a Kelvin probe set up in their laboratory at Indian institute of Technology Madras, Chennai, India. The Kelvin probe equipment is now being manufactured by several companies. So far, the fundamentals and the research results on Kelvin probe are all scattered. This book has been planned in such a way that an outline of the required fundamentals, the rudiments of design factors and the possible precautions one has to exercise in the fabrication and assembling of the equipment are all pooled together to one place. Also, it is the intention of the authors to expose the power of Kelvin probe in conducting Photoemission yield spectroscopy and Surface photovoltage spectroscopy experiments. This book is a modest attempt to describe the fundamentals and the design aspects. It is the earnest hope of the authors that this book may be of good use to the researchers working in the aspects of surface science and surface engineering.

9788190840637 • 200 (Hb) • 2010 • ₹ 695.00

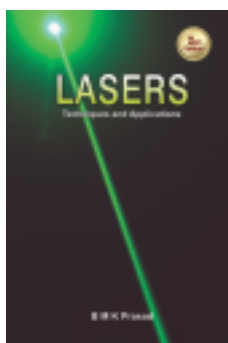


Electromagnetic Theory

T. Jayanthi
C.T. Manikandan
M. Arun

Contents: UNIT 1 Electrostatics I UNIT 2 Electrostatics II UNIT 3 Magnetostatics UNIT 4 Electrodynamc Fields UNIT 5 Electromagnetic Waves, Model Question Papers

97893855462795 • 390 (Pb) • 2017 • ₹ 475.00



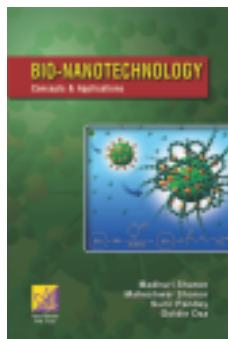
Lasers

Techniques and Applications
2/Ed

B.M.K Prasad

Contents: 1. Lasers : A Short Introduction 2. The Peculiar Properties Of Laser Light 3. Types Of Lasers 4. Gas Lasers 5. Solid State Lasers 6. Semiconductor Lasers 7. Dye Lasers 8. Highlights In The Development Of Laser 9. Optical Resonators 10. Line Shapes And Threshold Condition Of Oscillation With Lasers 11. Non-linear Optics 12. Far Ultraviolet And X-ray Laser 13. Theory Of Laser 14. Applications Of Laser 15. Optical Fibre Communication Systems 16. Manufacture And Applications: Fibre Materials 17. Laser Information Technology, Index

9789385462825 • 508 (Hb) • 2018 • ₹ 1995.00



Bio-Nanotechnology

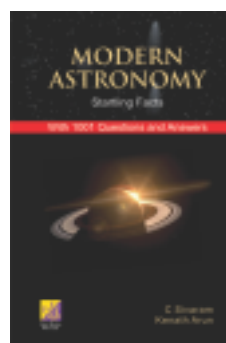
Concepts and Applications

Madhuri Sharon
Maheshwar Sharon
Sunil Pandey
Goldie Oza

About the Book: This book is a humble attempt towards sharpening the knowledge of undergraduates, postgraduates and all researchers who are interested in pursuing their research in the field of Bio-Nanotechnology. It focuses on fundamental Bionanomachines and their applications.

The book begins with the explanations that Nanotechnologies fall between the usual daily macrophysics and the quantum mechanics and covers their unique properties. Then it encompasses the domain of Biological system that efficiently functions at nano-scale using various biological nanomachines and custom made molecules. Fundamentals and applications of noble metal nanoparticles nano-engineered by different living systems and an up-to-date review of how DNA, RNA and proteins are so stable in a milieu fully crowded with other smaller organic and inorganic molecules, how molecular crowding endorses self assembly are presented in detail. The book also covers various aspects of carbon nanomaterials.

9789381162361 • 406 (Pb) • 2013 • ₹ 795.00



Modern Astronomy

Startling Facts
with 1001 Questions and Answers

C. Sivaram
Kenath Arun

Contents: Preface, International Year of Astronomy, 2009, 1. The Solar System, 2. Stellar Evolution, 3. Black Holes, 4. Galaxies, 5. Dark Matter and Dark Energy, Astronomy Quiz Questions, Astronomy Quiz Answers.

9789380156057 • 182 (Pb) • 2009 • ₹ 250.00



Basic Physics

Jayalakshmi M. Nair
Mily Jashank

Contents: 1. Properties of Solids 2. Properties of Liquids 3. Thermal Properties of Matter 4. Optics 5. Wave Motion, Sample Papers, Examination Papers

9789382127840 • 166 (Pb) • 2014 • ₹ 130.00

ISBN	Title	Author	₹ Price	Year	Binding	Imprint
9789384726584	100 Years of Einstein Theory of Relativity : an Introduction to Gravity and Cosmology	C. Sivaram	H	2018	1295	Ane Books
9788180520921	Advanced Engineering Physics	H. Parthasarathy	H	2019	2995	Ane Books
9788126537600	Applied Biophysics	Waigh	H	2013	2495	Wiley India
9789384726072	Basic Electrical and Electronics Engineering, 2/E	R. Murugan	S	2016	395	Ane Books
9789386761972	Basic Electronics : Problems & Solutions	Vasudevan	H	2019	1699	Ane Books
9789382291244	Carbon Nanotubes: Quantum Cylinders of Graphene	Saito	H	2013	2495	Elsevier
9788190840613	Classical Mechanics	Vimal Kumar Jain	S	2019	295	Ane Books
9789380618692	Computational Physics, 2/E	V.K. Mittal	S	2018	395	Ane Books
9789385462627	Electromagnetic Field	Jayanthy	S	2018	495	Ane Books
9789380156781	Electromagnetic Theory	P.K. Basu	S	2018	295	Ane Books
9789385462795	Electromagnetic Theory	Jayanthy	S	2018	495	Ane Books
9789389212464	Elements of Modern Physics	Vimal Kumar Jain	H	2020	1195	Ane Books
9789381162880	Elements of Modern Physics	S.H. Patil	S	2018	495	Ane Books
9789380156255	Elements of Nonequilibrium Statistical Mechanics	V. Balakrishnan	S	2019	695	Ane Books
9788190832243	Engineering Physics, 2/Ed	P.K. Basu	S	2018	395	Ane Books
9789380618227	Engineering Physics-1 UPTU	P.K. Basu	S	2010	195	Ane Books
9780415201919	Environmental Physics	Smith	S	2012	695	T&F
9789383656639	Essentials of Nonlinear Optics	Dr. Y.V.G.S. Murti	S	2018	350	Ane Books
9780849382956	Fibre Optics Principles and Practices	Al-Azzawi	H	2013	3995	T & F
9788184890372	Field Quantization	Greiner	S	2009	1295	Springer
9788184894523	Foundations of Fluid Dynamics	Gallavotti	S	2010	1195	Springer
9789385462290	Fourier Optics and Computational Imaging	Khare	H	2016	1995	Ane Books
9788184893182	Fundamentals of Semiconductor Lasers	Numai	S	2009	1095	Springer
9780195693287	Gauge Theory of Elementary Particle Physics: Problems and Solutions	Cheng	S	2008	695	OUP India
9788184890419	Gauge Theory of Weak Interactions, 3/ED	Greiner	S	2009	1295	Springer
9780582297418	Integral Representations for Spatial Models of Mathematical Physics	Vladislav	H	2014	4995	T & F
9780750302814	Introduction to Gauge Field Theory	Bailin	H	2015	3995	CRC
9788181283825	Introduction to Laser Spectroscopy, 2/ED	Andrews	S	2009	995	Springer
9780387403465	Introduction to Optics	Chartier	S	2010	1295	Springer
9788190840637	Kelvin Probe for Surface Engineering : Fundamentals and Design	A. Subramanyam	H	2010	695	Ane Books
9789385462825	Lasers : Techniques and Applications, 2/E	Prasad	H	2019	1995	Ane Books
9788184893304	Mathematical Methods of Quantum Optics	Puri	S	2009	1095	Springer
9789388264822	Mathematical Physics : with Applications, Problems & Solutions	Balakrishnan	S	2019	995	Ane Books
9789380156057	Modern Astronomy	C. Sivaram	S	2019	495	Ane Books
9781584886754	Molecular and Cellular Biophysics	Tuszynski	H	2012	1995	T & F
9780582356436	Navier-Stokes equations: Theory and Numerical Methods	Salvi	H	2014	4995	T & F



ISBN	Title	Author	₹ Price	Year	Binding	Imprint
9780199591138	Nonequilibrium Statistical Physics	Pottier	S	2010	995	OUP India
9789384726188	Nuclear and Particle Physics	Vimal Kumar Jain	H	2019	1695	Ane Books
9788126540235	Optics and Photonics, 2/ED	Smith	H	2013	3995	Wiley India
9788184894738	Optics, 2/ED	Moller	S	2010	1295	Springer
9780199545032	Particle Astrophysics	Perrkins	S	2008	695	OUP India
9781584889724	Principles of Nanophotonics	Ohtsu	H	2012	1995	T&F POD
9789385462849	Plasma and Plasmonics	SHAH	H	2017	1495	Ane Books
9789382291152	Physics of Carbon Nanotube Devices	Leonard	H	2013	2995	Elsevier
9789382291138	Physics of Condensed Matter	Misra	H	2013	3995	Elsevier
9788126553600	Physics of functional materials	Fredriksson	H	2015	4495	Wiley India
9788181281807	Physics of Semiconductors	Sapoval	S	2004	1095	Springer
9788184894653	Physics of Semiconductors	Grundmann	S	2010	995	Springer
9781498778572	Polymers : Chemistry and Physics of Modern Materials 3/E	Cowie	S	2018	1995	T&F INDIA
9788126540228	Principles of Nonlinear Optics	Shen	H	2013	3995	Wiley India
9780824706920	Principles of Thermodynamics	Kaufman	H	2016	1995	CRC
9788184892079	Principles of Vibration and Sound 2/Ed	Rossing	S	2009	895	Springer
9788184890358	Quantum Mechanics: Special Chapters	Greiner	S	2008	1295	Springer
9789385462573	Quantum Physics	V. K. Jain	H	2019	1495	Ane Books
9780367025328	Quantum Physics	Rogalaski	S	2019	1095	ANE/CRC
9789388264556	Quantum Physics : Evolution and Applications	Srinivasan	H	2019	1495	Ane Books
9788184894578	Short Course in General Reativity 3/Ed	Foster	S	2010	895	Springer
9781498771931	Soil Physics with Hydrus : Modeling and Applications	Radcliffe	H	2016	4495	CRC POD
9789380156248	Solid State Engineering Physics - 2/Ed	P.K. Basu	S	2019	395	Ane Books
9780367025304	Solid State Physics	Rogalski	S	2018	1095	CRC Press
9789384726010	Solid State Physics, 2nd Ed.	Vimal Kumar Jain	S	2019	495	Ane Books
9788184894462	Solid State Theory	Rosler	S	2010	695	Springer
9780198066835	Statistical Field Theory	Mussardo	S	2010	995	OUP India
9788184893212	Statistical Physics	Herman	S	2009	795	Springer
9780750300339	Superfluidity and Superconductivity	Tilley	H	2015	3995	IOP Press
9780750302678	Supersymmetric Gauge Field Theory and String Theory	Balin	H	2015	3995	T & F
9780750304085	Symmetries in Quantum Mechanics	Chaichian	H	2015	3995	CRC
9789386761569	Textbook of Optics	Chandra	H	2018	1995	Ane Books
9788184894547	Theory and Applications of Viscous Fluid Flows	Zeytonian	S	2004	595	Springer
9788180521843	Topics In Mathematical Physics	H. Parthasarathy	H	2007	995	Ane Books
9788184892765	Understanding Physics, 2 Book Set	Cassidy	S	2002	995	Springer

ISBN	Title	Author	₹ Price	Year	Binding	Imprint
9780849376047	Applications of Laser Plasma Interactions	Eliezer	H	2014	£ 49.99	T&F
9783642451270	Brief History of String Theory	Rickles	H	2014	€ 39.99	Springer
9781420086959	Commonly Asked Questions in Thermodynamics	Assael	S	2014	£ 5.99	T&F
9781493911264	Digital Fourier Analysis: Advanced Techniques	Kido	S	2015	€ 49.99	Springer
9780470014608	Dynamics And Relativity	Forshaw	S	2009	\$ 65	John Wiley
9783540292234	Electromagnetic Radiation: Variational Methods, Waveguides and Accelerators: Including Seminal Papers of Julian Schwinger	Milton	H	2006	€ 169.99	Springer
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