

Elementary Solid State Physics Omar Solutions

Solid-State Physics Condensed Matter Physics Introduction to Solid State Physics The Physics of Solids Solid State Physics Freemasonry in Black and White Band Theory and Electronic Properties of Solids Solid State Physics Atomic and Electronic Structure of Solids Elementary Solid State Physics Solid State Physics Introduction to Solid State Electronics ELEMENTS OF SOLID STATE PHYSICS Solid State Physics Electronic Properties of Materials Polarons INTRODUCTION TO SOLID STATE PHYSICS, 7TH ED Optical Properties of Solids Problems and Solutions on Solid State Physics, Relativity and Miscellaneous Topics An Introduction to Gauge Theories Berry Phases in Electronic Structure Theory INTRODUCTION TO PARTICLE PHYSICS Introduction to Solids The Oxford Solid State Basics Solid State Physics Introduction to Solid State Physics Introduction to Modern Solid State Physics Thermodynamics of Solids Solid State Ionics Solid-State Physics Solid State Chemistry Relativistic Quantum Mechanics Elementary solid state physics : principles and applications Introductory Solid State Physics Solid State Physics The Physics of Solids Feynman Diagram Techniques in Condensed Matter Physics Modern Physics And Solid State Physics (problems And Solutions) Principles of the Theory of Solids Fundamentals of Condensed Matter and Crystalline Physics

Solid-State Physics

Now updated—the leading single-volume introduction to solid state and soft condensed matter physics This Second Edition of the unified treatment of condensed matter physics keeps the best of the first, providing a basic foundation in the subject while addressing many recent discoveries. Comprehensive and authoritative, it consolidates the critical advances of the past fifty years, bringing together an exciting collection of new and classic topics, dozens of new figures, and new experimental data. This updated edition offers a thorough treatment of such basic topics as band theory, transport theory, and semiconductor physics, as well as more modern areas such as quasicrystals, dynamics of phase separation, granular materials, quantum dots, Berry phases, the quantum Hall effect, and Luttinger liquids. In addition to careful study of electron dynamics, electronics, and superconductivity, there is much material drawn from soft matter physics, including liquid crystals, polymers, and fluid dynamics. Provides frequent comparison of theory and experiment, both when they agree and when problems are still unsolved Incorporates many new images from experiments Provides end-of-chapter problems including computational exercises Includes more than fifty data tables and a detailed forty-page index Offers a solutions manual for instructors Featuring 370 figures and more than 1,000 recent and historically significant references, this volume serves as a valuable resource for graduate and undergraduate students in physics, physics professionals, engineers, applied mathematicians, materials scientists, and researchers in other fields who want to learn about the quantum and atomic underpinnings of materials science from a modern point of view.

Condensed Matter Physics

Introduction to Solid State Physics

Written by two of the most prominent leaders in particle physics, *Relativistic Quantum Mechanics: An Introduction to Relativistic Quantum Fields* provides a classroom-tested introduction to the formal and conceptual foundations of quantum field theory. Designed for advanced undergraduate- and graduate-level physics students, the text only requires previous courses in classical mechanics, relativity, and quantum mechanics. The introductory chapters of the book summarize the theory of special relativity and its application to the classical description of the motion of a free particle and a field. The authors then explain the quantum formulation of field theory through the simple example of a scalar field described by the Klein-Gordon equation as well as its extension to the case of spin $1/2$ particles described by the Dirac equation. They also present the elements necessary for constructing the foundational theories of the standard model of electroweak interactions, namely quantum electrodynamics and the Fermi theory of neutron beta decay. Many applications to quantum electrodynamics and weak interaction processes are thoroughly analyzed. The book also explores the timely topic of neutrino oscillations. Logically progressing from the fundamentals to recent discoveries, this textbook provides students with the essential foundation to study more advanced theoretical physics and elementary particle physics. It will help them understand the theory of electroweak interactions and gauge theories. View the second book in this collection: *Electroweak Interactions*.

The Physics of Solids

The ideal companion in condensed matter physics - now in new and revised edition. Solving homework problems is the single most effective way for students to familiarize themselves with the language and details of solid state physics. Testing problem-solving ability is the best means at the professor's disposal for measuring student progress at critical points in the learning process. This book enables any instructor to supplement end-of-chapter textbook assignments with a large number of challenging and engaging practice problems and discover a host of new ideas for creating exam questions. Designed to be used in tandem with any of the excellent textbooks on this subject, *Solid State Physics: Problems and Solutions* provides a self-study approach through which advanced undergraduate and first-year graduate students can develop and test their skills while acclimating themselves to the demands of the discipline. Each problem has been chosen for its ability to illustrate key concepts, properties, and systems, knowledge of which is crucial in developing a complete understanding of the subject, including: * Crystals, diffraction, and reciprocal lattices. * Phonon dispersion and electronic band structure. * Density of states. * Transport, magnetic, and optical properties. * Interacting electron systems. * Magnetism. * Nanoscale

Physics.

Solid State Physics

Solid state physics forms an important part of the undergraduate syllabi of physics in most of the universities. The existing competing books by Indian authors have too complex technical language which makes them abstractive to Indian students who use English as their secondary language. Solid State Physics is written as per the core module syllabus of the major universities and targets undergraduate B.Sc students. The book uses lecture style in explaining the concepts which would facilitate easy understanding of the concepts. The topics have been dealt with precision and provide adequate knowledge of the subject.

Freemasonry in Black and White

This undergraduate textbook merges traditional solid state physics with contemporary condensed matter physics, providing an up-to-date introduction to the major concepts that form the foundations of condensed materials. The main foundational principles are emphasized, providing students with the knowledge beginners in the field should understand. The book is structured in four parts and allows students to appreciate how the concepts in this broad area build upon each other to produce a cohesive whole as they work through the chapters. Illustrations work closely with the text to convey concepts and ideas visually, enhancing student understanding of difficult material, and end-of-chapter exercises varying in difficulty allow students to put into practice the theory they have covered in each chapter and reinforce new concepts.

Band Theory and Electronic Properties of Solids

The Purpose Of This Book Is To Motivate The Students To Organize Their Thoughts And Prepare Them For Problem Solving In The Vital Areas Of Modern Physics And Physics Of Condensed Materials. Each Chapter Begins With A Quick Review Of The Basic Concepts Of The Topics And Also, A Brief Discussion Of The Equation And Formulae That Are To Be Used For Solving The Problems. Examples And Illustrations Are Provided Then And There To Expedite The Learning Process And The Working Knowledge. About Six Hundred Problems Have Been Treated In Total; Two Hundred Problems Have Been Worked Out Providing All Minute Details. Answers For The Other Four Hundred Problems Have Been Provided At The End Of The Book. This Book Will Cater The Needs Of Undergraduate And Postgraduate Students Of Physics, Chemistry, Materials Science And All Branches Of Engineering Except Civil Engineering. Candidates Appearing For The Gate And Other Competitive Examinations Would Find This Book Useful.

Solid State Physics

This book provides an introduction to band theory and the electronic properties of materials at a level suitable for final-year undergraduates or first-year graduate students. It sets out to provide the vocabulary and quantum-mechanical training necessary to understand the electronic, optical and structural properties of the materials met in science and technology and describes some of the experimental techniques which are used to study band structure today. In order to leave space for recent developments, the Drude model and the introduction of quantum statistics are treated synoptically. However, Bloch's theorem and two tractable limits, a very weak periodic potential and the tight-binding model, are developed rigorously and in three dimensions. Having introduced the ideas of bands, effective masses and holes, semiconductor and metals are treated in some detail, along with the newer ideas of artificial structures such as super-lattices and quantum wells, layered organic substances and oxides. Some recent 'hot topics' in research are covered, e.g. the fractional Quantum Hall Effect and nano-devices, which can be understood using the techniques developed in the book. In illustrating examples of e.g. the de Haas-van Alphen effect, the book focuses on recent experimental data, showing that the field is a vibrant and exciting one. References to many recent review articles are provided, so that the student can conduct research into a chosen topic at a deeper level. Several appendices treating topics such as phonons and crystal structure make the book self-contained introduction to the fundamentals of band theory and electronic properties in condensed matter physics today.

Atomic and Electronic Structure of Solids

Written by world-leading experts in particle physics, this new book from Luciano Maiani and Omar Benhar, with contributions from the late Nicola Cabibbo, is based on Feynman's path integrals. Key elements of gauge theories are described—Feynman diagrams, gauge-fixing, Faddeev-Popov ghosts—as well as renormalization in Quantum Electrodynamics. Quarks and QCD interactions are introduced. Renormalization group and high momentum behaviour of the coupling constants is discussed in QED and QCD, with asymptotic freedom derived at one-loop. These concepts are related to the Higgs boson and models of grand unification. "an excellent introduction to the quantum theory of gauge fields and their applications to particle physics. It will be an excellent book for the serious student and a good reference for the professional practitioner. Let me add that, scattered through the pages, we can find occasional traces of Nicola Cabibbo's style." —John Iliopoulos, CNRS-Ecole Normale Supérieure "The volume ends with an illuminating description of the expectation generated by the recent discovery of the Higgs boson, combined with the lack of evidence for super-symmetric particles in the mass range 0.6-1 TeV." —Arturo Menchaca-Rocha, FinstP, Professor of Physics, Mexico's National Autonomous University, Former President of the Mexican Academy of Sciences, Presidential Advisor "The reader is masterfully guided through the subtleties of the quantum field theory and elementary particle physics from simple examples in Quantum Mechanics to salient details of modern theory." —Mikhail Voloshin, Professor of Physics, University of

Minnesota

Elementary Solid State Physics

This revised and updated Fourth Edition of the text builds on the strength of previous edition and gives a systematic and clear exposition of the fundamental principles of solid state physics. The text covers the topics, such as crystal structures and chemical bonds, semiconductors, dielectrics, magnetic materials, superconductors, and nanomaterials. What distinguishes this text is the clarity and precision with which the author discusses the principles of physics, their relations as well as their applications. With the introduction of new sections and additional information, the fourth edition should prove highly useful for the students. This book is designed for the courses in solid state physics for B.Sc. (Hons.) and M.Sc. students of physics. Besides, the book would also be useful to the students of chemistry, material science, electrical/electronic and allied engineering disciplines. New to the Fourth Edition • Solved examples have been introduced to explain the fundamental principles of physics. • Matrix representation for symmetry operations has been introduced in Chapter 1 to enable the use of Group Theory for treating crystallography. • A section entitled 'Other Contributions to Heat Capacity', has been introduced in Chapter 5. • A statement on 'Kondo effect (minimum)' has been added in Chapter 14. • A section on 'Graphenes' has been introduced in Chapter 16. • The section on 'Carbon Nanotubes', in Chapter 16 has been revised. • A "Lesson on Group Theory", has been added as Appendix.

Solid State Physics

It is quite satisfying for an author to learn that his brainchild has been favorably accepted by students as well as by professors and thus seems to serve some useful purpose. This horizontally integrated text on the electronic properties of metals, alloys, semiconductors, insulators, ceramics, and polymeric materials has been adopted by many universities in the United States as well as abroad, probably because of the relative ease with which the material can be understood. The book has now gone through several re printing cycles (among them a few pirate prints in Asian countries). I am grateful to all readers for their acceptance and for the many encouraging comments which have been received. I have thought very carefully about possible changes for the second edition. There is, of course, always room for improvement. Thus, some rewording, deletions, and additions have been made here and there. I withstood, how ever, the temptation to expand considerably the book by adding completely new subjects. Nevertheless, a few pages on recent developments needed to be inserted. Among them are, naturally, the discussion of ceramic (high-tempera ture) superconductors, and certain elements of the rapidly expanding field of optoelectronics. Further, I felt that the readers might be interested in learning some more practical applications which result from the physical concepts which have been treated here.

Introduction to Solid State Electronics

ELEMENTS OF SOLID STATE PHYSICS

This is a first undergraduate textbook in Solid State Physics or Condensed Matter Physics. While most textbooks on the subject are extremely dry, this book is written to be much more exciting, inspiring, and entertaining.

Solid State Physics

For final year undergraduates and graduate students in physics, this book offers an up-to-date treatment of the optical properties of solid state materials.

Electronic Properties of Materials

The First Edition Of This Book Was Brought Out By Wiley Eastern Ltd. In 1994. The Sixth Edition Now At Your Hand Differs From The First Edition In Many Respects. Many-Sided Changes Both Qualitatively And Quantitatively Are The Quotable Features Of This Edition. The Purpose Of This Edition Is Not Only To Initiate The Beginners Into This Fascinating Subject, But Also To Prepare Them In This Area For The Postgraduate Examinations Conducted By Universities Spread All Over The Country. Reading This Text Book In Depth Rather Than A Casual, Go-Through May Improve The Workaholic Culture Of The Students Desiring Higher Education At Iits And Highly Graded Universities Through Gate. The Same Yardstick Is Adoptable By The Postgraduate Students In Physics And Engineering Streams Aiming To Score High Grades In The Written Tests Conducted By Upsc For Class I Posts In Various Central Government Departments And Boards.

Polarons

Over the past twenty-five years, mathematical concepts associated with geometric phases have come to occupy a central place in our modern understanding of the physics of electrons in solids. These 'Berry phases' describe the global phase acquired by a quantum state as the Hamiltonian is changed. Beginning at an elementary level, this book provides a pedagogical introduction to the important role of Berry phases and curvatures, and outlines their great influence upon many key properties of electrons in solids, including electric polarization, anomalous Hall conductivity, and the nature of the topological insulating state. It focuses on drawing connections between physical concepts and provides a solid framework for their integration, enabling researchers and students to explore and develop links to related fields. Computational

examples and exercises throughout provide an added dimension to the book, giving readers the opportunity to explore the central concepts in a practical and engaging way.

INTRODUCTION TO SOLID STATE PHYSICS, 7TH ED

Optical Properties of Solids

Market_Desc: · Physicists· Engineers· Senior and Graduate Level Students of Solid State Physics· Professors of Solid State Physics
Special Features: · Kittel is a world authority in solid state physics· Known to the physics community as the definitive work on solid state physics
About The Book: This is an updated edition of the definitive text in Solid State Physics. Solid State Physics is concerned with the properties that result from the distribution of electrons in metals, semiconductors, and insulators. The book also demonstrates how the changes and imperfections of real solids can be understood with simple models.

Problems and Solutions on Solid State Physics, Relativity and Miscellaneous Topics

An Introduction to Gauge Theories

A distinctive introduction to the principles governing polaron science for experimental and theoretical graduate students and researchers.

Berry Phases in Electronic Structure Theory

Solid State Physics, a comprehensive study for the undergraduate and postgraduate students of pure and applied sciences, and engineering disciplines is divided into eighteen chapters. The First seven chapters deal with structure related aspects such as lattice and crystal structures, bonding, packing and diffusion of atoms followed by imperfections and lattice vibrations. Chapter eight deals mainly with experimental methods of determining structures of given materials. While the next nine chapters cover various physical properties of crystalline solids, the last chapter deals with the anisotropic properties of materials. This chapter has been added for benefit of readers to understand the crystal properties (anisotropic) in terms of some simple mathematical formulations such as tensor and matrix. New to the Second Edition: Chapter on: *Anisotropic Properties of Materials

INTRODUCTION TO PARTICLE PHYSICS

A must-have textbook for any undergraduate studying solid state physics. This successful brief course in solid state physics is now in its second edition. The clear and concise introduction not only describes all the basic phenomena and concepts, but also such advanced issues as magnetism and superconductivity. Each section starts with a gentle introduction, covering basic principles, progressing to a more advanced level in order to present a comprehensive overview of the subject. The book is providing qualitative discussions that help undergraduates understand concepts even if they can't follow all the mathematical detail. The revised edition has been carefully updated to present an up-to-date account of the essential topics and recent developments in this exciting field of physics. The coverage now includes ground-breaking materials with high relevance for applications in communication and energy, like graphene and topological insulators, as well as transparent conductors. The text assumes only basic mathematical knowledge on the part of the reader and includes more than 100 discussion questions and some 70 problems, with solutions free to lecturers from the Wiley-VCH website. The author's webpage provides Online Notes on x-ray scattering, elastic constants, the quantum Hall effect, tight binding model, atomic magnetism, and topological insulators. This new edition includes the following updates and new features: * Expanded coverage of mechanical properties of solids, including an improved discussion of the yield stress * Crystal structure, mechanical properties, and band structure of graphene * The coverage of electronic properties of metals is expanded by a section on the quantum hall effect including exercises. New topics include the tight-binding model and an expanded discussion on Bloch waves. * With respect to semiconductors, the discussion of solar cells has been extended and improved. * Revised coverage of magnetism, with additional material on atomic magnetism * More extensive treatment of finite solids and nanostructures, now including topological insulators * Recommendations for further reading have been updated and increased. * New exercises on Hall mobility, light penetrating metals, band structure

Introduction to Solids

This comprehensive text covers the basic physics of the solid state starting at an elementary level suitable for undergraduates but then advancing, in stages, to a graduate and advanced graduate level. In addition to treating the fundamental elastic, electrical, thermal, magnetic, structural, electronic, transport, optical, mechanical and compositional properties, we also discuss topics like superfluidity and superconductivity along with special topics such as strongly correlated systems, high-temperature superconductors, the quantum Hall effects, and graphene. Particular emphasis is given to so-called first principles calculations utilizing modern density functional theory which for many systems now allow accurate calculations of the electronic, magnetic, and thermal properties.

The Oxford Solid State Basics

This textbook is specifically tailored for undergraduate engineering courses offered in the junior year, providing a thorough understanding of solid state electronics without relying on the prerequisites of quantum mechanics. In contrast to most solid state electronics texts currently available, with their generalized treatments of the same topics, this is the first text to focus exclusively and in meaningful detail on introductory material. The original text has already been in use for 10 years. In this new edition, additional problems have been added at the end of most chapters. These problems are meant not only to review the material covered in the chapter, but also to introduce some aspects not covered in the text. An amended Solutions Manual is in preparation.

Solid State Physics

An introduction to the application of Feynman diagram techniques for researchers and advanced undergraduate students in condensed matter theory and many-body physics.

Introduction to Solid State Physics

Introduction to Modern Solid State Physics

Solid state ionics, being a multidisciplinary area, is expected to grow at a faster rate in the new millennium, prompting the discovery of new materials and devices, as well as helping to optimize the known devices, especially the portable power sources and display systems. The Asian Society for Solid State Ionics (ASSSI) plays a significant role in bringing together researchers from the Asian countries, every two years, to exchange notes and ideas, to foster friendship and collaboration, and to discuss the prospects. The topics covered in this volume are: ion dynamics, theoretical modeling, ion-conducting polymers, gels and ceramics, glasses, crystalline materials including nano-phases, composites, electrode/electrolyte interfaces and novel experimental techniques. Papers on crystalline materials deal with ion conduction in Li, Na, Ag, Tl, F and O-containing compounds. Materials and device aspects have received wide coverage, especially the areas of lithium ion batteries (LIBs) and solid oxide fuel cells (SOFCs). Rechargeable high energy density LIBs, especially those employing immobilized gel or polymer electrolyte, are the favorite portable power sources in the new millennium. As expected, a large number of papers on both cathodes and polymer electrolytes for LIBs were presented at the conference. The papers on fuel cells almost exclusively deal with SOFCs, indicating the great importance being given to this area in Japan and China. A breakthrough in materials and technology of SOFC is expected in the coming decade. This volume will be useful not only to the active researchers in the field but also to youngsters entering the exciting area of solid state ionics. Contents: Crystalline Materials Glasses Lithium Batteries Fuel Cells Sensors, Electrochromic Displays and Other Devices Readership:

Solid state physicists, condensed matter physicists and materials scientists. Keywords: Solid State; Ionics; Lithium; Battery; Glass

Thermodynamics of Solids

So, we see that in the acoustic mode all the atoms move next to synchronously, like in an acoustic wave in homogeneous medium. Contrary, in the optical mode; the gravity center remains unperturbed. In an ionic crystal such a vibration produces alternating dipole moment. Consequently, the mode is optically active

Solid State Ionics

While the standard solid state topics are covered, the basic ones often have more detailed derivations than is customary (with an emphasis on crystalline solids). Several recent topics are introduced, as are some subjects normally included only in condensed matter physics. Lattice vibrations, electrons, interactions, and spin effects (mostly in magnetism) are discussed the most comprehensively. Many problems are included whose level is from "fill in the steps" to long and challenging, and the text is equipped with references and several comments about experiments with figures and tables.

Solid-State Physics

This comprehensive and well-organized book focuses on the phenomenological aspects of Particle Physics. It strikes a fine balance between those texts that require sophisticated mathematical physics and those that are too elementary. For, unlike in many books on the subject, which give prominence to gauge theories, the attempt here is to lay stress on phenomenology _ an aspect that needs exposure among students of high energy physics.

Solid State Chemistry

Graduate-level textbook for physicists, chemists and materials scientists.

Relativistic Quantum Mechanics

Professor Ziman's classic textbook on the theory of solids was first published in 1964. This paperback edition is a reprint of the second edition, which was substantially revised and enlarged in 1972. The value and popularity of this textbook is well attested by reviewers' opinions and by the existence of several foreign language editions, including German, Italian,

Spanish, Japanese, Polish and Russian. The book gives a clear exposition of the elements of the physics of perfect crystalline solids. In discussing the principles, the author aims to give students an appreciation of the conditions which are necessary for the appearance of the various phenomena. A self-contained mathematical account is given of the simplest model that will demonstrate each principle. A grounding in quantum mechanics and knowledge of elementary facts about solids is assumed. This is therefore a textbook for advanced undergraduates and is also appropriate for graduate courses.

Elementary solid state physics : principles and applications

Introductory Solid State Physics

Solid State Physics

While the standard solid state topics are covered, the basic ones often have more detailed derivations than is customary (with an emphasis on crystalline solids). Several recent topics are introduced, as are some subjects normally included only in condensed matter physics. Lattice vibrations, electrons, interactions, and spin effects (mostly in magnetism) are discussed the most comprehensively. Many problems are included whose level is from "fill in the steps" to long and challenging, and the text is equipped with references and several comments about experiments with figures and tables.

The Physics of Solids

Updated to reflect recent work in the field, this book emphasizes crystalline solids, going from the crystal lattice to the ideas of reciprocal space and Brillouin zones, and develops these ideas for lattice vibrations, for the theory of metals, and for semiconductors. The theme of lattice periodicity and its varied consequences runs through eighty percent of the book. Other sections deal with major aspects of solid state physics controlled by other phenomena: superconductivity, dielectric and magnetic properties, and magnetic resonance.

Feynman Diagram Techniques in Condensed Matter Physics

Intended for first- and second-year undergraduates, this introduction to solid-state chemistry includes practical examples of applications and modern developments to offer students the opportunity to apply their knowledge in real-life situations. It aims to provide students with a thorough understanding of the traditional knowledge of crystal structures: lattices, unit

cells, close packing, and octahedral and tetrahedral holes and their occupation by various ions in the well-known crystal structures. This descriptive work is augmented by free-electron and band theory. Links to other branches of chemistry and practical examples are emphasized, as are the links back to band theory and crystal structures. For this second edition, the book has been updated throughout and has two new chapters, one on X-ray diffraction techniques and another on solid-state preparative methods, as well as new sections on symmetry and ferroelectrics.

Modern Physics And Solid State Physics (problems And Solutions)

Solid State Physics emphasizes a few fundamental principles and extracts from them a wealth of information. This approach also unifies an enormous and diverse subject which seems to consist of too many disjoint pieces. The book starts with the absolutely minimum of formal tools, emphasizes the basic principles, and employs physical reasoning ("a little thinking and imagination" to quote R. Feynman) to obtain results. Continuous comparison with experimental data leads naturally to a gradual refinement of the concepts and to more sophisticated methods. After the initial overview with an emphasis on the physical concepts and the derivation of results by dimensional analysis, The Physics of Solids deals with the Jellium Model (JM) and the Linear Combination of Atomic Orbitals (LCAO) approaches to solids and introduces the basic concepts and information regarding metals and semiconductors.

Principles of the Theory of Solids

Crystal structures and properties (1001-1027) - Electron theory, energy bands and semiconductors (1028-1051) - Electromagnetic properties, optical properties and superconductivity (1052-1076) - Other topics (1077-1081) - Special relativity (2001-2007) - General relativity (2008-2023) - Relativistic cosmology (2024-2028) - History of physics and general questions (3001-3025) - Measurements, estimations and errors (3026-3048) - Mathematical techniques (3049-3056).

Fundamentals of Condensed Matter and Crystalline Physics

Assuming an elementary knowledge of quantum and statistical physics, this book provides a comprehensive guide to principal physical properties of condensed matter, as well as the underlying theory necessary for a proper understanding of their origins. The subject matter covers the principal features of condensed matter physics, but with particular accent on the properties of metal alloys. Relevance to technical applications is recognized.

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[HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)