

# Solution Manual Semiconductor Physics And Devices 4e

Physics of Semiconductor Devices  
Semiconductor Physics and Applications  
Modern Semiconductor Device Physics, Solutions Manual  
Semiconductor Physics  
Electronic and Optoelectronic Properties of Semiconductor Structures  
Semiconductor Laser Theory  
Physics of Semiconductors and Their Heterostructures  
Fundamentals of Semiconductors  
Semiconductor Device Physics and Design  
Semiconductor Device Fundamentals  
Integrated Microelectronic Devices  
INTRODUCTION TO SEMICONDUCTOR MATERIALS AND DEVICES  
Solid State Physics  
Physics of Semiconductor Devices  
Physics of Optoelectronic Devices, Solutions Manual  
Nanoscale Device Physics  
Fundamentals of Semiconductor Devices  
Microelectronics  
Semiconductor Material and Device Characterization  
Fundamentals of Solid-state Electronics  
Electronic Transport in Mesoscopic Systems  
PHYSICS OF SEMICONDUCTOR DEVICES, 3RD EDITION  
Solid State Electronic Devices  
Instructor's Manual for Physics of Semiconductors and Their Heterostructures  
Semiconductor Physics  
Student Solutions Manual for Thornton/Rex's Modern Physics for Scientists and Engineers, 4th  
Electronic and Electrical Engineering, Solutions Manual (S/M) second edition.  
Semiconductor Physics And Devices  
Introduction to Optics  
Fundamentals of Semiconductors  
Semiconductor Optics and Transport Phenomena  
Semiconductor Fundamentals  
Physics for Computer Science Students  
Semiconductor

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PhysicsSemiconductor Devices: Physics and Technology, 3rd EditionThe Oxford Solid State BasicsSemiconductor Physics And DevicesThe Physics of Low-dimensional SemiconductorsMicroelectronics Circuit Analysis and DesignStudent Solutions Manual with Study Guide for Serway/Jewett's Principles of Physics: A Calculus-Based Text

## **Physics of Semiconductor Devices**

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.

## **Semiconductor Physics and Applications**

This junior level electronics text provides a foundation for analyzing and designing analog and digital electronics throughout the book. Extensive pedagogical features including numerous design examples, problem solving technique sections, Test Your Understanding questions, and chapter checkpoints lend to this classic text. The author, Don Neamen, has many years experience as an Engineering Educator. His experience shines through each chapter of the book, rich with realistic examples and practical rules of thumb.The Third Edition continues to offer the same hallmark features that made the previous editions such a success.Extensive Pedagogy: A short introduction at the beginning of

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each chapter links the new chapter to the material presented in previous chapters. The objectives of the chapter are then presented in the Preview section and then are listed in bullet form for easy reference. Test Your Understanding Exercise Problems with provided answers have all been updated. Design Applications are included at the end of chapters. A specific electronic design related to that chapter is presented. The various stages in the design of an electronic thermometer are explained throughout the text. Specific Design Problems and Examples are highlighted throughout as well.

### **Modern Semiconductor Device Physics, Solutions Manual**

Emphasizes the theory of semiconductor optoelectronic devices, demonstrating comparisons between theoretical and experimental results. Presents such important topics as semiconductor heterojunctions and band structure calculations near the band edges for bulk and quantum-well semiconductors. Details semiconductor lasers including double-heterostructure, stripe-geometry gain-guided semiconductor, distributed feedback and surface-emitting. Systematically investigates high-speed modulation of semiconductor lasers using linear and nonlinear gains. Features new subjects such as the theories on the band structures of strained semiconductors and strained quantum-well lasers. Covers key areas behind the operation of semiconductor lasers, modulators and photodetectors. An Instructor's Manual presenting

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detailed solutions to all the problems in the book is available from the Wiley editorial department

## **Semiconductor Physics**

This book will be useful to solid-state scientists, device engineers, and students involved in semiconductor design and technology. It provides a lucid account of band structure, density of states, charge transport, energy transport, and optical processes, along with a detailed description of many devices. It includes sections on superlattices and quantum well structures, the effects of deep-level impurities on transport, and the quantum Hall effect. This 8th edition has been revised and updated, including several new sections.

## **Electronic and Optoelectronic Properties of Semiconductor Structures**

## **Semiconductor Laser Theory**

## **Physics of Semiconductors and Their Heterostructures**

This Solution Manual, a companion volume of the book, Fundamentals of Solid-State Electronics, provides the solutions to selected problems listed in the book. Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an

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introductory device core course using this book. This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state-of-the-art transistor reliability problems which have been taught to advanced undergraduate and graduate students.

## **Fundamentals of Semiconductors**

Resistivity -- Carrier and doping density -- Contact resistance and Schottky barriers -- Series resistance, channel length and width, and threshold voltage -- Defects -- Oxide and interface trapped charges, oxide thickness -- Carrier lifetimes -- Mobility -- Charge-based and probe characterization -- Optical characterization -- Chemical and physical characterization -- Reliability and failure analysis.

## **Semiconductor Device Physics and Design**

Beginning graduate introduction to low-dimensional systems and their applications.

## **Semiconductor Device Fundamentals**

Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual-channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short-channel effects, low-dimensional devices and single-electron transistors. Concepts are introduced to the reader in a simple way, often using comparisons

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to everyday-life experiences such as simple fluid mechanics. They are then explained in depth and mathematical developments are fully described. Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory. Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner.

### **Integrated Microelectronic Devices**

Excellent bridge between general solid-state physics textbook and research articles packed with providing detailed explanations of the electronic, vibrational, transport, and optical properties of semiconductors "The most striking feature of the book is its modern outlook provides a wonderful foundation. The most wonderful feature is its efficient style of exposition an excellent book." Physics Today "Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents. This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts. I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them." Contemporary Physics Offers much new material: an extensive appendix about the important and by now well-established, deep center known as the DX center, additional problems and the solutions to over fifty of

the problems at the end of the various chapters.

## **INTRODUCTION TO SEMICONDUCTOR MATERIALS AND DEVICES**

The student solutions manual contains detailed solutions to approximately 25% of the end-of-chapter problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

### **Solid State Physics**

Special Features \*Computer-based exercises and homework problems -- unique to this text and comprising 25% of the total number of problems -- encourage students to address realistic and challenging problems, experiment with what if scenarios, and easily obtain graphical outputs. Problems are designed to progressively enhance MATLAB-use proficiency, so students need not be familiar with MATLAB at the start of your course. Program scripts that are answers to exercises in the text are available at no charge in electronic form (see Teaching Resources below). \*Supplement and Review Mini-Chapters after each of the text's three parts contain an extensive review list of terms, test-like problem sets with answers, and detailed suggestions on supplemental reading to reinforce students' learning and help them prepare for exams. \*Read-Only Chapters, strategically placed to provide a change of pace during the course, provide informative, yet enjoyable reading for students.

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\*Measurement Details and Results samples offer students a realistic perspective on the seldom-perfect nature of device characteristics, contrary to the way they are often represented in introductory texts.  
Content Highlig

### **Physics of Semiconductor Devices**

Introduction to Optics is now available in a re-issued edition from Cambridge University Press. Designed to offer a comprehensive and engaging introduction to intermediate and upper level undergraduate physics and engineering students, this text also allows instructors to select specialized content to suit individual curricular needs and goals. Specific features of the text, in terms of coverage beyond traditional areas, include extensive use of matrices in dealing with ray tracing, polarization, and multiple thin-film interference; three chapters devoted to lasers; a separate chapter on the optics of the eye; and individual chapters on holography, coherence, fiber optics, interferometry, Fourier optics, nonlinear optics, and Fresnel equations.

### **Physics of Optoelectronic Devices, Solutions Manual**

This book is designed to help readers gain a basic understanding of semiconductor devices and the physical operating principles behind them. This two-fold approach 1) provides the user with a sound understanding of existing devices, and 2) helps them develop the basic tools with which they can later

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learn about applications and the latest devices. The piece provides one of the most comprehensive treatments of all the important semiconductor devices, and reflects the most current trends in the technology and theoretical understanding of the devices. FEATURES/BENEFITS \*NEW--Thoroughly updated to reflect the most current trends in the technology and theoretical understanding of devices. \*NEW--Expanded description of silicon Czochralski growth, wafer production, and vapor phase epitaxy (Ch. 1). \*NEW--Clearer discussion of chemical bonding, energy band formation and hole transport (Chs. 2, 3 and 4). \*NEW--Consolidated coverage of p-n junction diodes and its applications (Ch. 5). \*NEW--Greatly expanded/updated discussion of device fabrication processes (Ch. 5 and appendices). \*NEW--Earlier discussion of MOS devices (Ch. complementary MOS field effect transistors (MOSFETs) in integrated circuits today. \*NEW--Major revision of chapter on Field Effect Transistors (Ch. 6)--Both in the underlying theory as well as discussion of a variety of short channel, high field and hot carrier effects in scaled, ultra-small MOSFETs. Includes extensive discussions of the current-voltage and capacitance-voltage characteristics of these devices--and the information that can be gleaned from such measurements. \*NEW--Updated chapter on Bipolar Junction Transistors (BJTs) (Ch. 7)--To reflect current technology. Describes higher-order effects (including the Kirk effect and Webster effect); discusses the Gummel-Poon model (which is more elaborate and physically more accurate than the Ebers-Moll model); and updates the fabrication aspects of BJTs. \*NEW--Consolidated coverage of

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optoelectronic devices in a single chapter (Ch. 8)--Brings the discussion of semiconductor lasers into the same chapter as LEDs and detectors \*Reflects the growing importance of optoelectronics.

\*NEW--Updated coverage of integrated circuits (Ch. concerted shift to CMOS applications, such as logic and memory integrated circuits. \*NEW--A section on the insulated gate bipolar transistor (Ch. 11)--A device that is gradually supplanting the semiconductor-controlled rectifier. \*NEW--Real data--Wherever feasible, replaces idealized current-voltage and capacitance-voltage plots with real data.

## **Nanoscale Device Physics**

## **Fundamentals of Semiconductor Devices**

A modern take on microelectronic device engineering  
Microelectronics is a 50-year-old engineering discipline still undergoing rapid evolution and societal adoption. Integrated Microelectronic Devices: Physics and Modeling fills the need for a rigorous description of semiconductor device physics that is relevant to modern nanoelectronics. The central goal is to present the fundamentals of semiconductor device operation with relevance to modern integrated microelectronics. Emphasis is devoted to frequency response, layout, geometrical effects, parasitic issues and modeling in integrated microelectronics devices (transistors and diodes). In addition to this focus, the concepts learned here are highly applicable in other device contexts. This text is suitable for a one-

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semester junior or senior-level course by selecting the front sections of selected chapters (e.g. 1-9). It can also be used in a two-semester senior-level or a graduate-level course by taking advantage of the more advanced sections.

## **Microelectronics**

"The textbook combines a thorough theoretical treatment of the basic physics of semiconductors with applications to practical devices by putting special emphasis on the physical principles upon which these devices operate. - "Graduate students and lecturers in semiconductor physics, condensed matter physics, electromagnetic theory, and quantum mechanics will find this a useful textbook and reference work."--Jacket.

## **Semiconductor Material and Device Characterization**

An in-depth, up-to-date presentation of the physics and operational principles of all modern semiconductor devices The companion volume to Dr. Sze's classic Physics of Semiconductor Devices, Modern Semiconductor Device Physics covers all the significant advances in the field over the past decade. To provide the most authoritative, state-of-the-art information on this rapidly developing technology, Dr. Sze has gathered the contributions of world-renowned experts in each area. Principal topics include bipolar transistors, compound-semiconductor field-effect-transistors, MOSFET and related devices, power

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devices, quantum-effect and hot-electron devices, active microwave diodes, high-speed photonic devices, and solar cells. Supported by hundreds of illustrations and references and a problem set at the end of each chapter, Modern Semiconductor Device Physics is the essential text/reference for electrical engineers, physicists, material scientists, and graduate students actively working in microelectronics and related fields.

## **Fundamentals of Solid-state Electronics**

A graduate textbook presenting the underlying physics behind devices that drive today's technologies. The book covers important details of structural properties, bandstructure, transport, optical and magnetic properties of semiconductor structures. Effects of low-dimensional physics and strain - two important driving forces in modern device technology - are also discussed. In addition to conventional semiconductor physics the book discusses self-assembled structures, mesoscopic structures and the developing field of spintronics. The book utilizes carefully chosen solved examples to convey important concepts and has over 250 figures and 200 homework exercises. Real-world applications are highlighted throughout the book, stressing the links between physical principles and actual devices. Electronic and Optoelectronic Properties of Semiconductor Structures provides engineering and physics students and practitioners with complete and coherent coverage of key modern semiconductor concepts. A solutions manual and set of viewgraphs

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for use in lectures are available for instructors, from solutions@cambridge.org.

## **Electronic Transport in Mesoscopic Systems**

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.

## **PHYSICS OF SEMICONDUCTOR DEVICES, 3RD ED**

This book presents those terms, concepts, equations, and models that are routinely used in describing the operational behavior of solid state devices. The second edition provides many new problems and illustrative examples.

### **Solid State Electronic Devices**

Nanoscale devices differ from larger microscale devices because they depend on the physical phenomena and effects that are central to their operation. This textbook illuminates the behavior of nanoscale devices by connecting them to the electronic, as well as magnetic, optical and mechanical properties, which fundamentally affect nanoscale devices in fascinating ways. Their small size means that an understanding of the phenomena measured is even more important, as their effects are so dominant and the changes in scale of underlying energetics and response are significant. Examples of these include classical effects such as single electron effects, quantum effects such as the states accessible as well as their properties; ensemble effects ranging from consequences of the laws of numbers to changes in properties arising from different magnitudes of the interactions, and others. These interactions, with the limits on size, make their physical behavior interesting, important and useful.

### **Instructor's Manual for Physics of**

## **Semiconductors and Their Heterostructures**

This graduate-level textbook offers a comprehensive treatment of the underlying physics behind modern semiconductor devices, with applications to specific modern solid-state devices throughout. Modular in organization, it should be suitable for a range of courses in solid state physics and devices in both physics and electrical engineering departments.

## **Semiconductor Physics**

### **Student Solutions Manual for Thornton/Rex's Modern Physics for Scientists and Engineers, 4th**

Advances in semiconductor technology have made possible the fabrication of structures whose dimensions are much smaller than the mean free path of an electron. This book gives a thorough account of the theory of electronic transport in such mesoscopic systems. After an initial chapter covering fundamental concepts, the transmission function formalism is presented, and used to describe three key topics in mesoscopic physics: the quantum Hall effect; localisation; and double-barrier tunnelling. Other sections include a discussion of optical analogies to mesoscopic phenomena, and the book concludes with a description of the non-equilibrium Green's function formalism and its relation to the transmission formalism. Complete with problems and solutions, the

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book will be of great interest to graduate students of mesoscopic physics and nanoelectronic device engineering, as well as to established researchers in these fields.

## **Electronic and Electrical Engineering, Solutions Manual(S/M) second edition.**

### **Semiconductor Physics And Devices**

This text is the product of several years' effort to develop a course to fill a specific educational gap. It is our belief that computer science students should know how a computer works, particularly in light of rapidly changing technologies. The text was designed for computer science students who have a calculus background but have not necessarily taken prior physics courses. However, it is clearly not limited to these students. Anyone who has had first-year physics can start with Chapter 17. This includes all science and engineering students who would like a survey course of the ideas, theories, and experiments that made our modern electronics age possible. This textbook is meant to be used in a two-semester sequence. Chapters 1 through 16 can be covered during the first semester, and Chapters 17 through 28 in the second semester. At Queens College, where preliminary drafts have been used, the material is presented in three lecture periods (50 minutes each) and one recitation period per week, 15 weeks per semester. The lecture and recitation are complemented by a two-hour laboratory period per

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week for the first semester and a two-hour laboratory period biweekly for the second semester.

## **Introduction to Optics**

This text brings together traditional solid-state approaches from the 20th century with developments of the early part of the 21st century, to reach an understanding of semiconductor physics in its multifaceted forms. It reveals how an understanding of what happens within the material can lead to insights into what happens in its use.

## **Fundamentals of Semiconductors**

Market\_Desc: · Design Engineers· Research Scientists· Industrial and Electronics Engineering Managers· Graduate Students  
Special Features: · Completely updated with 30-50% revisions· Will include worked examples and end-of-the-chapter problems (with a solutions manual)· First edition was the most cited work in contemporary engineering and applied science publications (over 12000 citations since 1969)  
About The Book: This classic reference provides detailed information on the underlying physics and operational characteristics of all major bipolar, unipolar, special microwave, and optoelectronic devices. It integrates nearly 1,000 references to important original research papers and review articles, and includes more than 650 high-quality technical illustrations and 25 tables of material parameters for device analysis.

## **Semiconductor Optics and Transport Phenomena**

### **Semiconductor Fundamentals**

Developed from the authors' classroom-tested material, Semiconductor Laser Theory takes a semiclassical approach to teaching the principles, structure, and applications of semiconductor lasers. Designed for graduate students in physics, electrical engineering, and materials science, the text covers many recent developments, including diode lasers u

### **Physics for Computer Science Students**

The Third Edition of the standard textbook and reference in the field of semiconductor devices This classic book has set the standard for advanced study and reference in the semiconductor device field. Now completely updated and reorganized to reflect the tremendous advances in device concepts and performance, this Third Edition remains the most detailed and exhaustive single source of information on the most important semiconductor devices. It gives readers immediate access to detailed descriptions of the underlying physics and performance characteristics of all major bipolar, field-effect, microwave, photonic, and sensor devices. Designed for graduate textbook adoptions and reference needs, this new edition includes: A complete update of the latest developments New devices such as three-dimensional MOSFETs,

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MODFETs, resonant-tunneling diodes, semiconductor sensors, quantum-cascade lasers, single-electron transistors, real-space transfer devices, and more Materials completely reorganized Problem sets at the end of each chapter All figures reproduced at the highest quality Physics of Semiconductor Devices, Third Edition offers engineers, research scientists, faculty, and students a practical basis for understanding the most important devices in use today and for evaluating future device performance and limitations. A Solutions Manual is available from the editorial department.

## **Semiconductor Physics**

Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges. It begins with coverage of basic physics concepts, including the physics behind polar heterostructures and strained heterostructures. The book then details the important devices ranging from p-n diodes to bipolar and field effect devices. By relating device design to device performance and then relating device needs to system use the student can see how device design works in the real world.

## **Semiconductor Devices: Physics and Technology, 3rd Edition**

Market\_Desc: · Graduate and Advanced Undergraduate Students of Electrical Engineering

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About The Book: This comprehensive introduction to the elementary theory and properties of semiconductors describes the basic physics of semiconductor materials and technologies for fabrication of semiconductor devices. Addresses approaches to modeling and provides details of measurement techniques. It also includes numerous illustrative examples and graded problems.

## **The Oxford Solid State Basics**

This two-volume manual features detailed solutions to 20 percent of the end-of-chapter problems from the text, plus lists of important equations and concepts, other study aids, and answers to selected end-of-chapter questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

## **Semiconductor Physics And Devices**

Excellent bridge between general solid-state physics textbook and research articles packed with providing detailed explanations of the electronic, vibrational, transport, and optical properties of semiconductors "The most striking feature of the book is its modern outlook provides a wonderful foundation. The most wonderful feature is its efficient style of exposition an excellent book." Physics Today "Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents. This makes it an excellent

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textbook both for learners and for more experienced researchers wishing to check facts. I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them." Contemporary Physics Offers much new material: an extensive appendix about the important and by now well-established, deep center known as the DX center, additional problems and the solutions to over fifty of the problems at the end of the various chapters.

### **The Physics of Low-dimensional Semiconductors**

Well-balanced and up-to-date introduction to the field of semiconductor optics, including transport phenomena in semiconductors. Starting with the theoretical fundamentals of this field the book develops, assuming a basic knowledge of solid-state physics. The application areas of the theory covered include semiconductor lasers, detectors, electro-optic modulators, single-electron transistors, microcavities and double-barrier resonant tunneling diodes. One hundred problems with hints for solution help the readers to deepen their knowledge.

### **Microelectronics Circuit Analysis and Design**

The awaited revision of Semiconductor Devices: Physics and Technology offers more than 50% new or revised material that reflects a multitude of important

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discoveries and advances in device physics and integrated circuit processing. Offering a basic introduction to physical principles of modern semiconductor devices and their advanced fabrication technology, the third edition presents students with theoretical and practical aspects of every step in device characterizations and fabrication, with an emphasis on integrated circuits. Divided into three parts, this text covers the basic properties of semiconductor materials, emphasizing silicon and gallium arsenide; the physics and characteristics of semiconductor devices bipolar, unipolar special microwave and photonic devices; and the latest processing technologies, from crystal growth to lithographic pattern transfer.

## **Student Solutions Manual with Study Guide for Serway/Jewett's Principles of Physics: A Calculus-Based Text**

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THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#)  
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[HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE  
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