

Modern Physics Krane 3rd Edition

The Correspondence Principle (1918 - 1923) Physics for the Life Sciences Solutions Manual to Accompany Introductory Nuclear Physics Basic Ideas and Concepts in Nuclear Physics, An Introductory Approach Modern Physics, 2Nd Ed Modern Particle Physics Introduction to Nuclear Physics Subatomic Physics Quantum Mechanics, Introductory Nuclear Physics Modern Physics, 3rd Edition Facts and Mysteries in Elementary Particle Physics Data Mining: Concepts and Techniques Introductory Nuclear Physics Modern Nuclear Chemistry Modern Physics for Engineers Modern Physics for Engineers Introduction to the Basic Concepts of Modern Physics University Physics The ASCRS Textbook of Colon and Rectal Surgery Introductory Nuclear Physics Fundamentals of Physics I QUANTUM PHYSICS: OF ATOMS, MOLECULES, SOLIDS, NUCLEI AND PARTICLES Foundations of Nuclear and Particle Physics Compendium of Quantum Physics Modern Physics Physics Physics for Scientists and Engineers Modern Physics Introduction to Modern Physics Modern Physics Chapters for Physics, Third Edition Introduction to Elementary Particles Modern Physics, Loose-Leaf Modern Physics Nuclear and Particle Physics Modern Physics The Earth System Modern Physics Vector Calculus NUCLEAR PHYSICS: PRINCIPLES AND APPLICATIONS

The Correspondence Principle (1918 - 1923)

This text explains clearly and with the minimum of mathematical complexity the quantum mechanics needed by physics undergraduates. It is aimed at students who have finished the first year of their courses. It is widely recommended as a course text.

Physics for the Life Sciences

This is the second edition of an established textbook on nuclear physics for senior undergraduates and postgraduate students. Professor Heyde has taken the opportunity to make the book more useful for students and teachers by adding an extensive set of problems. To bring the book up to date, he has revised several chapters and added a new chapter on nuclei at the extremes of stability. The book has evolved from a course taught by the author and gives a balanced account of both theoretical and experimental nuclear physics. It is also ideal for researchers wanting an accessible introduction to the subject. Emphasis is given to depth of treatment rather than skimming over topics and there are many diagrams as well as box inserts illustrating particular topics.

Solutions Manual to Accompany Introductory Nuclear Physics

About The Book: A revision of a successful junior/senior level text, this introduction to elementary quantum mechanics clearly explains the properties of the most important quantum systems. The book emphasizes the applications of theory, and

contains new material on particle physics, electron-positron annihilation in solids and the Mossbauer effect. It includes new appendices on such topics as crystallography, Fourier Integral Description of a Wave Group, and Time-Independent Perturbation Theory.

Basic Ideas and Concepts in Nuclear Physics, An Introductory Approach

Tipler and Llewellyn's acclaimed text for the intermediate-level course (not the third semester of the introductory course) guides students through the foundations and wide-ranging applications of modern physics with the utmost clarity--without sacrificing scientific integrity.

Modern Physics, 2Nd Ed

An accessible introduction to nuclear and particle physics with equal coverage of both topics, this text covers all the standard topics in particle and nuclear physics thoroughly and provides a few extras, including chapters on experimental methods; applications of nuclear physics including fission, fusion and biomedical applications; and unsolved problems for the future. It includes basic concepts and theory combined with current and future applications. An excellent resource for physics and astronomy undergraduates in higher-level courses, this text also serves well as a general reference for graduate studies.

Modern Particle Physics

This textbook brings together nuclear and particle physics, presenting a balanced overview of both fields as well as the interplay between the two. The theoretical as well as the experimental foundations are covered, providing students with a deep understanding of the subject. In-chapter exercises ranging from basic experimental to sophisticated theoretical questions provide an important tool for students to solidify their knowledge. Suitable for upper undergraduate courses in nuclear and particle physics as well as more advanced courses, the book includes road maps guiding instructors on tailoring the content to their course. Online resources including color figures, tables, and a solutions manual complete the teaching package. This textbook will be essential for students preparing for further study or a career in the field who require a solid grasp of both nuclear and particle physics.

Introduction to Nuclear Physics

Subatomic Physics

An explanation of the basic concepts of theoretical and experimental nuclear and particle physics.

Quantum Mechanics,

There has been increasing interest in including a significant treatment of modern physics in the

introductory physics course. In response to this trend the authors have prepared an extended version of Physics, Part II. They have modified the last two chapters, Light and Quantum Physics, and the Wave Nature of Matter, and added five new ones, namely, The Structure of Atoms; Atomic Physics: Three Selected Topics; Electrical Conduction in Solids; Nuclear Physics - An Introduction; and Energy from the Nucleus.

Introductory Nuclear Physics

Written by established experts in the field, this book features in-depth discussions of proven scientific principles, current trends, and applications of nuclear chemistry to the sciences and engineering. • Provides up-to-date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry • Presents the basic physical principles of nuclear and radiochemistry in a succinct fashion, requiring no basic knowledge of quantum mechanics • Adds discussion of math tools and simulations to demonstrate various phenomena, new chapters on Nuclear Medicine, Nuclear Forensics and Particle Physics, and updates to all other chapters • Includes additional in-chapter sample problems with solutions to help students • Reviews of 1st edition: "an authoritative, comprehensive but succinct, state-of-the-art textbook ." (The Chemical Educator) and "an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes " (CHOICE)

Modern Physics, 3rd Edition

Unique in its coverage of all aspects of modern particle physics, this textbook provides a clear connection between the theory and recent experimental results, including the discovery of the Higgs boson at CERN. It provides a comprehensive and self-contained description of the Standard Model of particle physics suitable for upper-level undergraduate students and graduate students studying experimental particle physics. Physical theory is introduced in a straightforward manner with full mathematical derivations throughout. Fully-worked examples enable students to link the mathematical theory to results from modern particle physics experiments. End-of-chapter exercises, graded by difficulty, provide students with a deeper understanding of the subject. Online resources available at www.cambridge.org/MPP feature password-protected fully-worked solutions to problems for instructors, numerical solutions and hints to the problems for students and PowerPoint slides and JPEGs of figures from the book.

Facts and Mysteries in Elementary Particle Physics

Linking physics fundamentals to modern technology-a highly applied primer for students and engineers Reminding us that modern inventions-new materials, information technologies, medical technological breakthroughs-are based on well-established fundamental principles of physics, Jasprit Singh

integrates important topics from quantum mechanics, statistical thermodynamics, and materials science, as well as the special theory of relativity. He then goes a step farther and applies these fundamentals to the workings of electronic devices-an essential leap for anyone interested in developing new technologies. From semiconductors to nuclear magnetic resonance to superconducting materials to global positioning systems, Professor Singh draws on wide-ranging applications to demonstrate each concept under discussion. He downplays extended mathematical derivations in favor of results and their real-world design implication, supplementing the book with nearly 100 solved examples, 120 figures, and 200 end-of-chapter problems. Modern Physics for Engineers provides engineering and physics students with an accessible, unified introduction to the complex world underlying today's design-oriented curriculums. It is also an extremely useful resource for engineers and applied scientists wishing to take advantage of research opportunities in diverse fields.

Data Mining: Concepts and Techniques

This is a much awaited revision of a modern classic that covers all the major topics in modern physics, including relativity, quantum physics, and their applications. Krane provides a balanced presentation of both the historical development of all major modern physics concepts and the experimental evidence supporting the theory.

Introductory Nuclear Physics

Even though additional materials were added to this edition, but the learning system remain untouched to provide students with an easy method to learn the concept and apply it to the real problems. My intension in writing this book was to include materials that are enough to be covered in one single semester without eliminating anything. The chapters are the following: Chapter 1: All about Vectors Chapter 2: Functions and Variables with Derivatives Chapter 3: Integrals Chapter 4: Line, and Surface Integrals, and Theorems

Modern Nuclear Chemistry

Modern Physics for Engineers

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the

methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

Modern Physics for Engineers

This is the first quantitative treatment of elementary particle theory that is accessible to undergraduates. Using a lively, informal writing style, the author strikes a balance between quantitative rigor and intuitive understanding. The first chapter provides a detailed historical introduction to the subject. Subsequent chapters offer a consistent and modern presentation, covering the quark model, Feynman diagrams, quantum electrodynamics, and gauge theories. A clear introduction to the Feynman rules, using a simple model, helps readers learn the calculational techniques without the complications of spin. And an accessible treatment of QED shows how

to evaluate tree-level diagrams. Contains an abundance of worked examples and many end-of-chapter problems.

Introduction to the Basic Concepts of Modern Physics

Modern Physics, 2nd edition is the revision of a modern classic that covers all the major topics in modern physics, including relativity, quantum physics, and their applications.· The Special Theory of Relativity· The Particlelike Properties of Electromagnetic Radiation· The Wavelike Properties of Particles· The Schrödinger Equation· The Rutherford-Bohr Model of the Atom· The Hydrogen Atom in Wave Mechanics· Many-Electron Atoms· Molecular Structure· Statistical Physics· Solid-State Physics· Nuclear Structure and Radioactivity· Nuclear Reactions and Applications· Elementary Particles· Astrophysics and General Relativity· Cosmology: The Origin and Fate of the Universe

University Physics

A beloved introductory physics textbook, now including exercises and an answer key, explains the concepts essential for thorough scientific understanding In this concise book, R. Shankar, a well-known physicist and contagiously enthusiastic educator, explains the essential concepts of Newtonian mechanics, special relativity, waves, fluids, thermodynamics, and statistical mechanics. Now in an expanded edition—complete with problem sets and

answers for course use or self-study—this work provides an ideal introduction for college-level students of physics, chemistry, and engineering; for AP Physics students; and for general readers interested in advances in the sciences. The book begins at the simplest level, develops the basics, and reinforces fundamentals, ensuring a solid foundation in the principles and methods of physics.

The ASCRS Textbook of Colon and Rectal Surgery

For the intermediate-level course, the Fifth Edition of this widely used text takes modern physics textbooks to a higher level. With a flexible approach to accommodate the various ways of teaching the course (both one- and two-term tracks are easily covered), the authors recognize the audience and its need for updated coverage, mathematical rigor, and features to build and support student understanding. Continued are the superb explanatory style, the up-to-date topical coverage, and the Web enhancements that gained earlier editions worldwide recognition. Enhancements include a streamlined approach to nuclear physics, thoroughly revised and updated coverage on particle physics and astrophysics, and a review of the essential Classical Concepts important to students studying Modern Physics.

Introductory Nuclear Physics

University Physics is designed for the two- or three-semester calculus-based physics course. The text has

been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency.

Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME III Unit 1:
Optics Chapter 1: The Nature of Light Chapter 2:
Geometric Optics and Image Formation Chapter 3:
Interference Chapter 4: Diffraction Unit 2: Modern
Physics Chapter 5: Relativity Chapter 6: Photons and
Matter Waves Chapter 7: Quantum Mechanics
Chapter 8: Atomic Structure Chapter 9: Condensed
Matter Physics Chapter 10: Nuclear Physics Chapter

11: Particle Physics and Cosmology

Fundamentals of Physics I

A comprehensive, unified treatment of present-day nuclear physics-the fresh edition of a classic text/reference. "A fine and thoroughly up-to-date textbook on nuclear physics . . . most welcome." -Physics Today (on the First Edition). What sets Introductory Nuclear Physics apart from other books on the subject is its presentation of nuclear physics as an integral part of modern physics. Placing the discipline within a broad historical and scientific context, it makes important connections to other fields such as elementary particle physics and astrophysics. Now fully revised and updated, this Second Edition explores the changing directions in nuclear physics, emphasizing new developments and current research-from superdeformation to quark-gluon plasma. Author Samuel S.M. Wong preserves those areas that established the First Edition as a standard text in university physics departments, focusing on what is exciting about the discipline and providing a concise, thorough, and accessible treatment of the fundamental aspects of nuclear properties. In this new edition, Professor Wong:

- * Includes a chapter on heavy-ion reactions-from high-spin states to quark-gluon plasma
- * Adds a new chapter on nuclear astrophysics
- * Relates observed nuclear properties to the underlying nuclear interaction and the symmetry principles governing subatomic particles
- * Regroups material and appendices to make the text easier to use
- * Lists

Internet links to essential databases and research projects * Features end-of-chapter exercises using real-world data. Introductory Nuclear Physics, Second Edition is an ideal text for courses in nuclear physics at the senior undergraduate or first-year graduate level. It is also an important resource for scientists and engineers working with nuclei, for astrophysicists and particle physicists, and for anyone wishing to learn more about trends in the field.

QUANTUM PHYSICS: OF ATOMS, MOLECULES, SOLIDS, NUCLEI AND PARTICLES

Our understanding of the physical world was revolutionized in the twentieth century — the era of “modern physics”. This book, aimed at the very best students, presents the foundations and frontiers of today's physics. It focuses on the following topics: quantum mechanics; applications in atomic, nuclear, particle, and condensed-matter physics; special relativity; relativistic quantum mechanics, including the Dirac equation and Feynman diagrams; quantum fields; and general relativity. The aim is to cover these topics in sufficient depth such that things “make sense” to students and they can achieve an elementary working knowledge of them. Many problems are included, a great number of which take dedicated readers just as far as they want to go in modern physics. Although the book is designed so that one can, in principle, read and follow the text without doing any of the problems, the reader is urged to attempt as many of them as possible.

Several appendices help bring the reader up to speed on any additional required mathematics. With very few exceptions, the reader should then find the text, together with the appendices and problems, to be self-contained.

Foundations of Nuclear and Particle Physics

Compendium of Quantum Physics

Modern Physics

Physics

Physics for Scientists and Engineers

During this period Bohr's researches had a double aim: to develop a consistent and adequate quantum theory and to explain the structures and properties of the elements of the periodic system. ``The Correspondence Principle'' contains the papers and manuscripts dealing mainly with the elaboration of the general quantum theory.

Modern Physics

These notes are designed as a text book for a course

on the Modern Physics Theory for undergraduate students. The purpose is providing a rigorous and self-contained presentation of the simplest theoretical framework using elementary mathematical tools. A number of examples of relevant applications and an appropriate list of exercises and answered questions are also given.

Introduction to Modern Physics

Since its first publication in 1983, Modern Physics has been one of the most widely used texts for the sophomore-level modern physics course for science and engineering students. It covers all the standard topics in the course, including relativity and introductory quantum mechanics, as well as introductions to statistical physics, nuclear physics high energy physics, astrophysics, and cosmology. Modern Physics provides a balanced presentation of both the historical development of all major modern physics concepts and the experimental evidence supporting the theory.

Modern Physics Chapters for Physics, Third Edition

With contributions by leading quantum physicists, philosophers and historians, this comprehensive A-to-Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment. It covers technical and interpretational aspects alike, and includes both traditional and new concepts, making it an indispensable resource for concise, up-to-

date information about the many facets of quantum physics.

Introduction to Elementary Particles

For courses in Earth Systems Science offered in departments of Geology, Earth Science, Geography and Environmental Science. The first textbook of its kind that addresses the issues of global change from a true Earth systems perspective, The Earth System offers a solid emphasis on lessons from Earth's history that may guide decision-making in the future. It is more rigorous and quantitative than traditional Earth science books, while remaining appropriate for non-science majors.

Modern Physics, Loose-Leaf

Developed in conjunction with the American Society of Colon and Rectal Surgeons, this comprehensive textbook provides readers with the full scope of surgical practice for patients with diseases of the colon and rectum. Expert surgeons, all active both as educators and with busy clinical practices, have written concise and practical chapters on the most commonly done procedures while providing much-needed insight on less frequently presentations, as well. The ASCRS Textbook is designed to meet the needs not only of colorectal specialists, but also the general surgeon in practice whose caseload includes patients with disorders and diseases of the colon, rectum and anus. Residents and fellows will also find a wealth of hands-on guidance and practical tips and

tricks. The ASCRS Practice Parameters are incorporated in the book along with an appendix providing the most up-to-the minute access to best practice guidelines. Patient care and safety are addressed in each chapter. "[The ASCRS Textbook of Colon and Rectal Surgery] is a long awaited textbook for those in the field and it does not disappoint. It is brief and to the point, but does not lack the necessary detail expected from a society-produced publication. [It has an] easy-to-read quality that enhances comprehension for the trainee. It is by no means just a student textbook. The inclusion of "hot" current topics, like the anal fistula plug, makes it fresh and useful for experienced surgeons. This is an excellent addition to the colorectal library." (Doody's Review)

Modern Physics

Accessible and flexible, MODERN PHYSICS, Third Edition has been specifically designed to provide simple, clear, and mathematically uncomplicated explanations of physical concepts and theories of modern physics. The authors clarify and show support for these theories through a broad range of current applications and examples-attempting to answer questions such as: What holds molecules together? How do electrons tunnel through barriers? How do electrons move through solids? How can currents persist indefinitely in superconductors? To pique student interest, brief sketches of the historical development of twentieth-century physics such as anecdotes and quotations from key figures as well as interesting photographs of noted scientists and

original apparatus are integrated throughout. The Third Edition has been extensively revised to clarify difficult concepts and thoroughly updated to include rapidly developing technical applications in quantum physics. To complement the analytical solutions in the text and to help students visualize abstract concepts, the new edition also features free online access to QMTools, new platform-independent simulation software created by co-author, Curt Moyer, and developed with support from the National Science Foundation. Icons in the text indicate the problems designed for use with the software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Nuclear and Particle Physics

One of the field's most respected introductory texts, Modern Physics provides a deep exploration of fundamental theory and experimentation. Appropriate for second-year undergraduate science and engineering students, this esteemed text presents a comprehensive introduction to the concepts and methods that form the basis of modern physics, including examinations of relativity, quantum physics, statistical physics, nuclear physics, high energy physics, astrophysics, and cosmology. A balanced pedagogical approach examines major concepts first from a historical perspective, then through a modern lens using relevant experimental evidence and discussion of recent developments in the field. The emphasis on the interrelationship of principles and

methods provides continuity, creating an accessible “storyline” for students to follow. Extensive pedagogical tools aid in comprehension, encouraging students to think critically and strengthen their ability to apply conceptual knowledge to practical applications. Numerous exercises and worked examples reinforce fundamental principles.

Modern Physics

The Earth System

Modern Physics

Linking physics fundamentals to modern technology—a highly applied primer for students and engineers. Reminding us that modern inventions—new materials, information technologies, medical technological breakthroughs—are based on well-established fundamental principles of physics, Jasprit Singh integrates important topics from quantum mechanics, statistical thermodynamics, and materials science, as well as the special theory of relativity. He then goes a step farther and applies these fundamentals to the workings of electronic devices—an essential leap for anyone interested in developing new technologies. From semiconductors to nuclear magnetic resonance to superconducting materials to global positioning systems, Professor Singh draws on wide-ranging applications to demonstrate each concept under discussion. He downplays extended mathematical

derivations in favor of results and their real-world design implication, supplementing the book with nearly 100 solved examples, 120 figures, and 200 end-of-chapter problems. Modern Physics for Engineers provides engineering and physics students with an accessible, unified introduction to the complex world underlying today's design-oriented curriculums. It is also an extremely useful resource for engineers and applied scientists wishing to take advantage of research opportunities in diverse fields.

Vector Calculus

This book provides a comprehensive overview of modern particle physics accessible to anyone with a true passion for wanting to know how the universe works. We are introduced to the known particles of the world we live in. An elegant explanation of quantum mechanics and relativity paves the way for an understanding of the laws that govern particle physics. These laws are put into action in the world of accelerators, colliders and detectors found at institutions such as CERN and Fermilab that are in the forefront of technical innovation. Real world and theory meet using Feynman diagrams to solve the problems of infinities and deduce the need for the Higgs boson. Facts and Mysteries in Elementary Particle Physics offers an incredible insight from an eyewitness and participant in some of the greatest discoveries in 20th century science. From Einstein's theory of relativity to the spectacular discovery of the Higgs particle, this book will fascinate and educate anyone interested in the world of quarks, leptons and

gauge theories. This book also contains many thumbnail sketches of particle physics personalities, including contemporaries as seen through the eyes of the author. Illustrated with pictures, these candid sketches present rare, perceptive views of the characters that populate the field. The Chapter on Particle Theory, in a pre-publication, was termed "superbly lucid" by David Miller in Nature (Vol. 396, 17 Dec. 1998, p. 642). Contents:

Introduction Preliminaries The Standard Model Quantum Mechanics. Mixing Energy, Momentum and Mass-Shell Detection Accelerators and Storage Rings The CERN Neutrino Experiment The Particle Zoo Particle Theory Finding the Higgs Quantum

Chromodynamics Epilogue Addendum Readership: Students, lay people and anyone interested in the world of elementary particles. Keywords: Particle Physics; Quantum

Mechanics; Relativity; Quarks; Leptons; Gauge

Theories; Higgs Particle Review: Reviews of the First Edition: "Veltman's life spans the history of particle physics, from Antiparticles to Z bosons. So does his crystal clear book, which tells all you want to know about the strange sub-nuclear world and the stranger scientists that study it a thrilling tale about the world's tiniest things." Sheldon Glashow Nobel laureate Boston University "I must congratulate you! The book you have written is truly a masterpiece. Not only have you explained the physics of the world of elementary particles to the young aspiring student, but you have made it available to the intelligent layman. On top of that you gave it the humanity it deserves; reading this book brought me back to the most exciting period of my life in which every day

brought a new discovery and we all fought for recognition. I can truly say that there is no book like this." Melvin Schwartz Nobel laureate Columbia University "Veltman's transparent explanations of the abstract theories of quantum mechanics and special relativity, his lucid accounts of esoteric subjects in particle physics, such as scaling, Higgs particle and renormalizability are very impressive. The book will interest anyone who is interested in the view of the physical world held by contemporary fundamental physicists." T Y Cao Boston University "I greatly enjoyed finally reading a book that goes into the details I always wanted Veltman has the courage to try a deeper level about what we understand and what is simply fact Even if you have read books popularizing physics before

NUCLEAR PHYSICS: PRINCIPLES AND APPLICATIONS

Market_Desc: This text is aimed at undergraduates in science and engineering who require knowledge of the fundamental principles of nuclear physics and its applications. Special Features: The book offers numerous practical examples and problems to enhance the material.· It avoids complex and extensive mathematical treatments· It covers the basic theory but emphasizes the applications About The Book: This title provides the latest information on applications of Nuclear Physics. Written from an experimental point of view this text is broadly divided into two parts, firstly a general introduction to Nuclear Physics and secondly its applications. The book also

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includes chapters on practical examples and problems. It also contains hints to solving problems which are included in the appendix.

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