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CASSIUS JULIAN

A General Relativity Workbook OUP Oxford
This is a comprehensive and richly illustrated textbook on the astrophysics of the interstellar and intergalactic medium--the gas and dust, as well as the electromagnetic radiation, cosmic rays, and magnetic and gravitational fields, present between the stars in a galaxy and also between galaxies themselves. Topics include radiative processes across the electromagnetic spectrum; radiative transfer; ionization; heating and cooling; astrochemistry; interstellar dust; fluid dynamics, including ionization fronts and shock waves; cosmic rays; distribution and evolution of the interstellar medium; and star formation. While it is assumed that the reader has a background in undergraduate-level physics, including some prior exposure to atomic and molecular physics, statistical mechanics, and electromagnetism, the first six chapters of the book include a review of the basic physics that is used in later chapters. This graduate-level textbook includes references for further reading, and serves as an invaluable resource for working astrophysicists. Essential textbook on the physics of the interstellar and intergalactic medium Based on a course taught by the author for more than twenty years at Princeton University Covers radiative processes, fluid dynamics, cosmic rays, astrochemistry, interstellar dust, and more Discusses the physical state and distribution of the ionized, atomic, and molecular phases of the interstellar medium Reviews diagnostics using emission and absorption lines Features color illustrations and detailed reference materials in appendices Instructor's manual with problems and solutions (available only to teachers)
Foundations of Modern Cosmology Cambridge University Press
This is a uniquely comprehensive and detailed treatment of the theoretical and observational foundations of modern cosmology, by a Nobel Laureate in Physics. It gives up-to-date and self contained accounts of the theories and observations that have made the past few decades a golden age of cosmology.
Cosmology for the Curious Princeton University Press
This classic describes and illustrates basic theory, with a detailed explanation of discrete wavelet transforms. Suitable for upper-level undergraduates, it is also a practical resource for professionals.
Cosmological Physics World Scientific Publishing Company
This text provides an up-to-date and pedagogical introduction to this exciting area of research.
Galaxies in the Universe Courier Corporation

. . . the four books comprising the series would certainly be a valuable addition to any entrepreneurship library. However, each book also stands alone as an individual purchase. Lorraine Warren, International Journal of Entrepreneurial Behaviour and Research The book delivers what it promises: a map of the uses of narrative methods in entrepreneurship studies. It is both an interesting contribution to the field and an important methodological handbook for all entrepreneurship researchers who are thinking of adopting qualitative methods in their inquiries. However, it may also be read with advantage by other researchers using ethnography as their main methodological approach to social studies. . . The aim of the book is to show how narratives can enrich entrepreneurship studies, a goal that in my opinion is aptly fulfilled. Monika Kostera, Scandinavian Journal of Management . . . the contributors in this text breathe fresh and imaginative linguistic resources and narrative/discursive frames of reference into the inquiry of entrepreneurial activities. The anecdote, the narrative, the metaphorical, the discursive and the dramaturgical are significant therefore, not only because they bring to the surface voices, emotions, processes and the relationality of (everyday) entrepreneurial activity that have possibly been previously silenced. But also, to paraphrase Steyaert, these approaches highlight the controversial and interactive aspects of the research process. . . The text is welcome because it treats narrative in a serious and scholarly way. Denise Fletcher, International Small Business Journal In their edited book Narrative and Discursive Approaches in Entrepreneurship, Daniel Hjorth and Chris Steyaert provide a fascinating glimpse into a perspective on entrepreneurship that will be enlightening for many readers. Entrepreneurship authors typically talk about theory, methods, and data as if a straight-forward linear process united them all, and making sense of entrepreneurship was simply a matter of knowing how to interpret one s findings . By contrast, the authors in this volume propose narrative and discursive approaches in which the contributing authors emphasize rich description, reflexive conceptualization, and interpretations offered as part of the story itself. They draw upon an international set of cases, including Russia, Sweden, Denmark, Norway, Venezuela, and North America. The cases themselves make for fascinating reading, quite apart from what we learn about the difficulties of imposing a particular interpretation on a given story. For example, taxi drivers in Caracas, management consultants in Denmark, and women entrepreneurs in northern Norway all make for fascinating narratives from which to understand the entrepreneurial process. Unlike many edited books which have no plot , the editors have included opening and closing sections that link the chapters, offer alternative readings of them, and propose new and expansive ways of thinking about entrepreneurship. Howard Aldrich, University of North Carolina at Chapel Hill, US Daniel Hjorth

and Chris Steyaert set out to advance the study of entrepreneurship by refocusing the lens of discovery from economics, management and marketing to other paradigmatic stances in social sciences and humanities like anthropology and literary studies. The result is a provocative collection of chapters that inspire the reader to consider and explore new ideas and research practice that incorporate both the context and place of entrepreneurship. From the perceptive insights of the editors to the rigorous and provocative discourse of the chapters and thoughtful responses in the conclusion emerges a story, in the best of storytelling tradition, about how a linguistic turn can rouse new insights. The editors ask, how do these texts move you? they entice, provoke, challenge, stimulate and guide. Their implications should be far reaching and required reading for any student of t

Cosmology Princeton University Press

This introductory textbook describes modern cosmology at a level suitable for advanced undergraduates who are familiar with mathematical methods and basic theoretical physics. An introductory survey of the large scale structure of the universe is followed by an outline of general relativity. This is then used to construct the standard models of the universe. The very early and early stages of the Big Bang are described, and this includes primordial nucleosynthesis, grand unified theories, primordial black holes, and the era of quantum cosmology. The problem of the formation of structure in the universe is then addressed. This textbook concludes with brief outlines of alternative cosmologies. It includes 400 problems for students to solve, and is accompanied by numerous worked examples.

Lecture Notes in Cosmology Cambridge University Press

An Introduction to Stellar Astrophysics aspires to provide the reader with an intermediate knowledge on stars whilst focusing mostly on the explanation of the functioning of stars by using basic physical concepts and observational results. The book is divided into seven chapters, featuring both core and optional content: Basic concepts Stellar Formation Radiative Transfer in Stars Stellar Atmospheres Stellar Interiors Nucleosynthesis and Stellar Evolution and Chemically Peculiar Stars and Diffusion. Student-friendly features include: Detailed examples to help the reader better grasp the most important concepts A list of exercises is given at the end of each chapter and answers to a selection of these are presented. Brief recalls of the most important physical concepts needed to properly understand stars. A summary for each chapter Optional and advanced sections are included which may be skipped without interfering with the flow of the core content. This book is designed to cover the most important aspects of stellar astrophysics inside a one semester (or half-year) course and as such is relevant for advanced undergraduate students following a first course on stellar astrophysics, in physics or astronomy programs. It will also serve as a basic reference for a full-year course as well as for researchers working in related fields.

An Introduction to Einstein's General Relativity Cambridge University Press

Cosmology seeks to characterise our Universe in terms of models based on well-understood and tested physics. Today we know our Universe with a precision that once would have been unthinkable. This book develops the entire mathematical, physical and statistical framework within which this has been achieved. It tells the story of how we arrive at our profound conclusions, starting from the early twentieth century and following developments up to the latest data analysis of big astronomical datasets. It provides an enlightening description of the mathematical, physical and statistical basis for understanding and interpreting the results of key space- and ground-based data. Subjects covered include general relativity, cosmological models, the inhomogeneous Universe, physics of the cosmic background radiation, and methods and results of data analysis. Extensive online supplementary notes, exercises, teaching materials, and exercises in Python make this the perfect companion for researchers, teachers and students in physics, mathematics, and astrophysics.

Elements of Cosmological Thermodynamics Cambridge University Press

General relativity is now an essential part of undergraduate and graduate courses in physics, astrophysics and applied mathematics. This simple, user-friendly introduction to relativity is ideal for a first course in the subject. Beginning with a comprehensive but simple review of special relativity, the book creates a framework from which to launch the ideas of general relativity. After describing the basic theory, it moves on to describe important applications to astrophysics, black hole physics, and cosmology. Several worked examples, and numerous figures and images, help students appreciate the underlying concepts. There are also 180 exercises which test and develop students' understanding of the subject. The textbook presents all the necessary information and discussion for an elementary approach to relativity. Password-protected solutions to the exercises are available to instructors at www.cambridge.org/9780521735612.

Introduction to Cosmology Benjamin-Cummings Publishing Company

Based on the author’s own work and results obtained by renowned cosmologists, this short book provides a concise introduction to the relatively new research field of cosmological thermodynamics. Starting with a brief overview of basic cosmology and thermodynamics, the text gives an interesting account of the application of horizon thermodynamics to the homogeneous and isotropic Friedmann-Lemaitre-Robertson-Walker (FLRW) model, the inhomogeneous (Lemaitre-Tolman-Bondi) LTB model, and the gravitationally induced adiabatic particle creation scenario which is considered to be a viable alternative to the concordance Lambda-CDM model of the Universe. Both seasoned and new researchers in this field will appreciate the lucid presentation and the rich bibliography.

Introduction to the Interstellar Medium Cambridge University Press

Describes the branch of astronomy in which processes in the universe are investigated with experimental methods employed in particle-physics experiments. After a historical introduction the basics of elementary particles, Explains particle interactions and the relevant detection techniques, while modern aspects of astroparticle physics are described in a chapter on cosmology. Provides an orientation in the field of astroparticle physics that many beginners might seek and appreciate because the underlying physics fundamentals are presented with little mathematics, and the results are illustrated by many diagrams. Readers have a chance to enter this field of astronomy with a book that closes the gap between expert and popular level.

Foundations of Astrophysics Edward Elgar Publishing

This second edition has been updated and substantially expanded. Starting with the description of our home galaxy, the Milky Way, this cogently written textbook introduces the reader to the astronomy of galaxies, their structure, active galactic nuclei, evolution and large scale distribution in the Universe. After an extensive and thorough introduction to modern observational and theoretical

cosmology, the focus turns to the formation of structures and astronomical objects in the early Universe. The basics of classical astronomy and stellar astrophysics needed for extragalactic astronomy are provided in the appendix. While this book has grown out of introductory university courses on astronomy and astrophysics and includes a set of problems and solutions, it will not only benefit undergraduate students and lecturers; thanks to the comprehensive coverage of the field, even graduate students and researchers specializing in related fields will appreciate it as a valuable reference work.

Second Edition John Wiley & Sons

Cosmology has become a very active research field in the last decades thanks to the impressing improvement of our observational techniques which have led to landmark discoveries such as the accelerated expansion of the universe, and have put physicists in front of new mysteries to unveil, such as the quest after the nature of dark matter and dark energy. These notes offer an approach to cosmology, covering fundamental topics in the field: the expansion of the universe, the thermal history, the evolution of small cosmological perturbations and the anisotropies in the cosmic microwave background radiation. Some extra topics are presented in the penultimate chapter and some standard results of physics and mathematics are available in the last chapter in order to provide a self-contained treatment. These notes offer an in-depth account of the above-mentioned topics and are aimed to graduate students who want to build an expertise in cosmology.

An Introduction to Modern Stellar Astrophysics Oxford University Press

Lectures on Astrophysics provides an account of classic and contemporary aspects of astrophysics, with an emphasis on analytic calculations and physical understanding. It introduces fundamental topics in astrophysics, including the properties of single and binary stars, the phenomena associated with interstellar matter, and the structure of galaxies. Nobel Laureate Steven Weinberg combines exceptional physical insight with his gift for clear exposition to cover exciting recent developments and new results. Emphasizing theoretical results, and explaining their derivation and application, this book provides an invaluable resource for physics and astronomy students and researchers.

Extragalactic Astronomy and Cosmology Springer

A substantial update of this award-winning and highly regarded cosmology textbook, for advanced undergraduates in physics and astronomy.

Pearson New International Edition Cambridge University Press

An ideal introduction to Einstein's general theory of relativity This unique textbook provides an accessible introduction to Einstein's general theory of relativity, a subject of breathtaking beauty and supreme importance in physics. With his trademark blend of wit and incisiveness, A. Zee guides readers from the fundamentals of Newtonian mechanics to the most exciting frontiers of research today, including de Sitter and anti-de Sitter spacetimes, Kaluza-Klein theory, and brane worlds. Unlike other books on Einstein gravity, this book emphasizes the action principle and group theory as guides in constructing physical theories. Zee treats various topics in a spiral style that is easy on beginners, and includes anecdotes from the history of physics that will appeal to students and experts alike. He takes a friendly approach to the required mathematics, yet does not shy away from more advanced mathematical topics such as differential forms. The extensive discussion of black holes includes rotating and extremal black holes and Hawking radiation. The ideal textbook for undergraduate and graduate students, Einstein Gravity in a Nutshell also provides an essential resource for professional physicists and is accessible to anyone familiar with classical mechanics and electromagnetism. It features numerous exercises as well as detailed appendices covering a multitude of topics not readily found elsewhere. Provides an accessible introduction to Einstein's general theory of relativity Guides readers from Newtonian mechanics to the frontiers of modern research Emphasizes symmetry and the Einstein-Hilbert action Covers topics not found in standard textbooks on Einstein gravity Includes interesting historical asides Features numerous exercises and detailed appendices Ideal for students, physicists, and scientifically minded lay readers Solutions manual (available only to teachers)

An Introduction to Stellar Astrophysics Springer Nature

This exciting text opens the entire field of modern astrophysics to the reader by using only the basic tools of physics. Designed for the junior- level astrophysics course, each topic is approached in the context of the major unresolved questions in astrophysics. The core chapters have been designed for a course in stellar structure and evolution, while the extended chapters provide additional coverage of the solar system, galactic structure, dynamics, evolution, and cosmology.

A Second Movements in Entrepreneurship Book Cambridge University Press

A comprehensive and authoritative introduction to contemporary cosmology for advanced undergraduate and graduate students.

Fundamentals of Astrophysics Pearson

Introduction to General Relativity and Cosmology gives undergraduate students an overview of the fundamental ideas behind the geometric theory of gravitation and spacetime. Through pointers on how to modify and generalise Einstein's theory to enhance understanding, it provides a link between standard textbook content and current research in the field.Chapters present complicated material practically and concisely, initially dealing with the mathematical foundations of the theory of relativity, in particular differential geometry. This is followed by a discussion of the Einstein field equations and their various properties. Also given is analysis of the important Schwarzschild solutions, followed by application of general relativity to cosmology. Questions with fully worked answers are provided at the end of each chapter to aid comprehension and guide learning. This pared down textbook is specifically designed for new students looking for a workable, simple presentation of some of the key theories in modern physics and mathematics.

The First Half Million Years Cambridge University Press

Inflationary cosmology has been developed over the last twenty years to remedy serious shortcomings in the standard hot big bang model of the universe. This textbook, first published in 2005, explains the basis of modern cosmology and shows where the theoretical results come from. The book is divided into two parts; the first deals with the homogeneous and isotropic model of the Universe, the second part discusses how inhomogeneities can explain its structure. Established material such as the inflation and quantum cosmological perturbation are presented in great detail, however the reader is brought to the frontiers of current cosmological research by the discussion of more speculative ideas. An ideal textbook for both advanced students of physics and astrophysics, all of the necessary background material is included in every chapter and no prior knowledge of general relativity and quantum field theory is assumed.