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The Physics of Stars, Second Edition, is a concise introduction to the properties of stellar interiors and consequently the structure and evolution of stars. Strongly emphasising the basic physics, simple and uncomplicated theoretical models are used to illustrate clearly the connections between fundamental physics and stellar properties.

The Physics of Stars: Phillips, A. C.: 9780471987987 ...
Phillips, A. C. (Anthony C.), -2002. Edition: 2nd ed.
Publication: Chichester ; New York : John Wiley, 1999.
Series: Manchester physics series. The Manchester physics series
Format/Description: Book xii, 246 pages : illustrations (some color) ; 26 cm. Subjects: Stars.

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Assuming little in the way of prior knowledge, quantum concepts are carefully and precisely presented, and explored through numerous applications and problems.

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The major strength of the book is that the author does

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not evade the problems presented by some hard physics and astrophysics, but sorts them out with a minimum of fuss. The Physics of Stars shows how the study of stars can play an important role in physics education by providing a framework for seeing physics in action. All students of physics, astrophysics and astronomy will find it useful.

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quantum concepts are carefully and precisely presented, and explored through numerous applications and problems. Some of the more challenging aspects that are essential for a modern appreciation of the subject have been included, but are introduced and developed in the simplest way possible. Undergraduates taking a first course on quantum mechanics will find this text an invaluable introduction to the field and help prepare them for more advanced courses. Introduction to Quantum Mechanics: * Starts from basics, reviewing relevant concepts of classical physics where needed. * Motivates by considering weird behaviour of quantum particles. * Presents mathematical

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arguments in their simplest form.

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Barnett Computing for Scientists focuses on the principles involved in scientific programming. Topics of importance and interest to scientists are presented in a thoughtful and thought-provoking way, with coverage ranging from high-level object-oriented software to low-level machine-code operations. Taking a problem-solving approach, this book gives the reader an insight into the ways programs are implemented and what actually happens when they run. Throughout, the importance of good programming style is emphasised and illustrated. Two languages, Fortran 90 and C++, are used to provide contrasting examples, and explain how various techniques are used and when they are appropriate

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or inappropriate. For scientists and engineers needing to write programs of their own or understand those written by others, Computing for Scientists: * Is a carefully written introduction to programming, taking the reader from the basics to a considerable level of sophistication. * Emphasises an understanding of the principles and the development of good programming skills. * Includes optional "starred" sections containing more specialised and advanced material for the more ambitious reader. * Assumes no prior knowledge, and has many examples and exercises with solutions included at the back of the book.

In an illustrated, accessible text, the author explains

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the life cycle of stars, from dense molecular clouds to the enigmatic nebulae some stars leave behind in their violent ends.

The book leads the advanced undergraduate through the wide range of disciplines related to an understanding of the interstellar medium and is suitable for any student studying either physics or astrophysics. The study of the interstellar medium incorporates a large range of physical
More...processes on both large and small scales all of which are covered in this text. Together with the inclusion of simple models and problems at the end of each chapter this text provides a comprehensive

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overview and grounding in the study of the interstellar medium.

Stars are the fundamental observable constituents of the Universe. They are the first objects we see in the night sky, they dominate the light produced in our own and other galaxies, and nucleosynthesis in stars produces all the elements heavier than helium. A knowledge of stars and their evolution is vital to understand other astrophysical objects from accreting black holes and galaxies to the Universe itself. The structure of a star can be described mathematically by differential equations derived from the principles of hydrodynamics, electromagnetic theory,

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thermodynamics, quantum mechanics, atomic and nuclear physics. The basic equations of a spherical star are derived in detail at an accessible level. The topics discussed include modes of energy transport, the equation of state, the physics of the opacity sources and the nuclear reactions. Attention is also given to the virial theorem, polytropic gas spheres and homology principles and the procedure for numerical solution of the equations is outlined. This book tracks the evolution of stars from their main-sequence evolution through the exhaustion of various nuclear fuels to the end points of evolution and also introduces the topic of interacting binary stars. The aim is to take the reader from the essential

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underlying physical principles to the doors to current research on stellar interiors.

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