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Solution: Let the stars be at distances r_1 and r_2 from the center of mass; clearly we have $M_1 r_1 = M_2 r_2$ $r_1 + r_2 = a$ $G m_1 / a^2 = v^2 / r_2$ $G m_2 / a^2 = v^2 / r_1$. The first two equations give $r_1 = M_2 / (M_1 + M_2) a$ $r_2 = M_1 / (M_1 + M_2) a$. Since the stars are always separated by a distance a , star 1 feels a gravitational acceleration $\ddot{r}_1 = GM_2/a^2$ and star 2 feels an acceleration $\ddot{r}_2 = GM_1/a^2$.
Equating

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The Physics of Stars by A.C. Phillips; Stellar Interiors - Physical Principles, Structure, and Evolution by Hansen, Kawaler, & Trimble; Topics: Physics of stellar interiors and atmospheres; Properties of stars, stellar spectra, radiative transfer, line formation; Stellar structure, stellar evolution ... , but they need to work out solutions on ...

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The Physics of Stars, Second Edition provides a concise, self-contained account of how key aspects of stellar structure, evolution and nucleosynthesis can be understood in terms of

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fundamental physics. Beginning with an introduction to astrophysical concepts using elementary physics, the book progresses to consider stellar properties in terms of more advanced physical ideas all of which are carefully explained before they are applied. The result is a balanced presentation of both fundamental physics and astrophysics. A major strength of the book is that the author does not evade challenging concepts, but carefully explains them, enabling the reader to gain a fuller understanding of the theory.

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. This text does not intend to be encyclopaedic, rather it tends to focus on the most interesting and important aspects of stellar structure, evolution and nucleosynthesis. In the Second Edition, a new chapter on Helioseismology has been added, along with a list of physical constants and extra student problems. There is also new material on the Hertzsprung-Russell diagram, as well as a general updating of the entire text. It includes numerous problems at the end of each chapter aimed at both testing and extending student's knowledge.

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Department of Physics and Astronomy, University of Manchester
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Phillips Statistics R. J. Barlow Solid State Physics Second Edition J. R. Hook and H. E. Hall Quantum Mechanics F. Mandl Particle Physics Second Edition B. R. Martin and G. Shaw the Physics of Stars Second Edition A. C. Phillips Computing for Scientists R. J. Barlow and A. R. Barnett Electromagnetism, Second Edition is suitable for a first course in electromagnetism, whilst also covering many topics frequently encountered in later courses. The material has been carefully arranged and allows for flexibility in its use for courses of different length and structure. A knowledge of calculus and an elementary knowledge of vectors is assumed, but the mathematical properties of the differential vector operators are described in sufficient detail for an introductory course, and their physical significance in the context of electromagnetism is emphasised. In this Second Edition the authors give a fuller treatment of circuit analysis and include a discussion of the dispersion of electromagnetic waves. Electromagnetism, Second Edition features: The application of the laws of electromagnetism to practical problems such as the behaviour of antennas, transmission lines and transformers. Sets of problems at the end of each chapter to help student understanding, with hints and solutions to the problems given at the end of the book. Optional "starred" sections containing more specialised and advanced material for the more ambitious reader. An Appendix with a thorough discussion of electromagnetic standards and units. Recommended by many institutions. Electromagnetism, Second Edition has also been adopted by the Open University as the coursebook for its third level course on electromagnetism.

Donald D. Clayton's Principles of Stellar Evolution and Nucleosynthesis remains the standard work on the subject, a popular textbook for students in astronomy and astrophysics and a rich

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sourcebook for researchers. The basic principles of physics as they apply to the origin and evolution of stars and physical processes of the stellar interior are thoroughly and systematically set out. Clayton's new preface, which includes commentary and selected references to the recent literature, reviews the most important research carried out since the book's original publication in 1968.

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

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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 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.

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The major strength of the book is that the author does 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.

Following an introductory chapter on stellar fundamentals, the story begins of the lives and deaths of the stars. The authors take us on a journey from the sun, a comparatively young star, to supernovae - manifestations of dramatic death. On the way, the reader, advanced undergraduate or beginning postgraduate, is presented with such topics as stellar evolution, the hydrodynamics of stellar interiors, variability, and solar and stellar activity. This comprehensive but rigorous text, building on the theoretical and observational advances of recent years - for instance, astrophysical theory in the light of Supernova 1987A - is required reading for all serious students of astronomy.

This Second Edition is aimed at students taking a firstcourse in this subject, although it will also be of interest to professional physicists and electronic engineers requiring a grasp of the fundamentals of this important area of physics. Basic concepts are introduced in an easily accessible context: for example, wave propagation in crystals is introduced using one- and two-

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dimensional geometries. Only when these basic ideas are familiar are generalisations to three dimensions and the elegant framework of the reciprocal lattice made. Extensively rewritten, the Second Edition now includes new and expanded coverage of semiconductor devices, the quantum Hall effect, quasicrystals, high temperature superconductors and techniques for the study of the surfaces of solids. A chapter on dielectrics and ferroelectrics has also been added. Solid State Physics, Second Edition features:

- * A carefully written and structured text to help students fully understand this exciting subject.
- * A flow diagram allowing topics to be studied in different orders or omitted altogether.
- * Optional "starred" and highlighted sections containing more advanced and specialised material for the more ambitious reader.
- * Carefully selected problems at the end of each chapter designed to assist learning. Solutions are provided at the end of the book.

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