

An object's orbit depends on the "mass inside" its orbit (also known as the *interior mass*). For a planet in our Solar System, you can find the interior mass by adding the Sun's mass to the mass of each object between the Sun and the planet's orbit. For example, the interior mass to Earth's orbit would be the Sun's mass plus the mass of Mercury plus the mass of Venus.

Here is a table that lists each planet, the mass inside each planet's orbit, and the speed at which the planets orbit the Sun.

Planet	Interior Mass (solar masses)	Orbital Speed (km/s)
Mercury	1.00	47.9
Venus	1.0000027	35.0
Earth	1.0000057	29.8
Mars	1.0000060	24.1
Jupiter	1.00096	13.1
Saturn	1.0012	9.66
Uranus	1.0013	6.81
Neptune	1.0013	5.43

1) Where is the vast majority of mass in the solar system located? What object or objects account for most of this mass?

2) Two students are discussing their answers to Question 1:

Student 1: *I think the majority of the mass in the solar system must include both the Sun and the planets. As you get farther away from the Sun, the interior mass gets bigger and bigger because you include more planets.*

Student 2: *I disagree. The majority of the mass in the solar system is from just the Sun by itself. Sure the mass gets a little bigger as you include more planets, but the additional mass from planets is really small.*

Do you agree or disagree with either or both of the students? Explain your reasoning.

3) How do the orbital speeds of planets farther from the Sun compare to the orbital speeds of planets closer to the Sun?

Dark Matter Lecture Tutorial

Zhiming Liu, Zili Zhang



Dark Matter Lecture Tutorial:

Matter, Antimatter and Dark Matter Roberto Battiston, Bruna Bertucci, 2002 This book presents the progress in cosmic ray physics following the recent results obtained by balloon satellite and underground experiments The following topics are reviewed Composition and propagation of cosmic rays trapping of charged particles in the earth's magnetic field atmospheric neutrinos and high energy photon measurements in space Dark Matter David J. E. Marsh, David Ellis, Viraf M. Mehta, 2024-10-15 A complete treatment of all aspects of dark matter physics This book provides an incisive self contained introduction to one of the most intriguing subjects in modern physics presenting the evidence we have from astrophysics for the existence of dark matter the theories for what it could be and the cutting edge experimental and observational methods for testing them It begins with a survey of the astrophysical phenomena from rotation curves to lensing and cosmological structure formation It goes on to offer the most comprehensive overview available of all three major theories discussing weakly interacting massive particles WIMPs axions and primordial black holes The book explains the constraints on each theory such as direct detection and indirect astrophysical limits and enables students to build physical intuition using hands on exercises and supplemental material The only book to treat extensively WIMPs axions and primordial black holes Provides balanced coverage of the evidence theory and testing for dark matter from astrophysics particle physics and experimental physics Includes original problems and short quizzes throughout Accompanied by Jupyter notebooks that give sample calculations and methods to reproduce key results and graphs An ideal textbook for advanced undergraduate and graduate students and an essential reference for researchers Prime Elements of Ordinary Matter, Dark Matter and Dark Energy - Beyond Standard Model and String Theory Vladimir Ginzburg, 2007-06 This book outlines the history of the vortex theory and its latest development 3D spiral string theory **Proceedings of the 2011 Theoretical Advanced Study Institute in Elementary Particle Physics** Tim M. P. Tait, Konstantin T. Matchev, 2013 This volume is a compilation of the lectures at TASI 2011 held in Boulder Colorado June 2011 They cover topics in theoretical particle physics including the Standard Model and beyond collider physics dark matter and cosmology at a level intended to be accessible to students at the initial stages of their research careers Measurements in Evaluating Science Education Amy J. Catalano, Michael A. Marino, 2020-05-06 Measurements in Evaluating Science Education is a comprehensive intuitive guide to many of the key instruments created to assess science education environments learning and instruction Nearly 70 different surveys tests scales and other metrics are organized according to the qualities the measures attempt to gauge such as attitudes toward science beliefs and misconceptions self efficacy and content knowledge Summaries of each instrument usage information developmental history and validation and reported psychometric properties make this an essential reference for anyone interested in understanding science education assessment *Astrophysics at Very High Energies* Felix Aharonian, Lars Bergström, Charles Dermer, 2013-04-04 With the success of Cherenkov Astronomy and more recently with the launch of NASA's Fermi mission

very high energy astrophysics has undergone a revolution in the last years This book provides three comprehensive and up to date reviews of the recent advances in gamma ray astrophysics and of multi messenger astronomy Felix Aharonian and Charles Dermer address our current knowledge on the sources of GeV and TeV photons gleaned from the precise measurements made by the new instrumentation Lars Bergström presents the challenges and prospects of astro particle physics with a particular emphasis on the detection of dark matter candidates The topics covered by the 40th Saas Fee Course present the capabilities of current instrumentation and the physics at play in sources of very high energy radiation to students and researchers alike This book will encourage and prepare readers for using space and ground based gamma ray observatories as well as neutrino and other multi messenger detectors

State Of The Art Of Neutrino Physics, The: A Tutorial For Graduate Students And Young Researchers Antonio Ereditato, 2018-03-23 The neutrino is the most fascinating elementary particle due to its elusive nature and outstanding properties that have attracted the interest of generations of physicists since 1930 when it was first postulated by Wolfgang Pauli as a desperate remedy to explain the apparent energy violation in the beta decay Many fundamental discoveries in particle physics had the neutrino involved in one way or another To date neutrino physics is still one of the hottest topics of modern particle physics Key experiments and significant theoretical developments have contributed in building up what we can call now the Standard Model of Neutrino Physics The aim of the book is to provide graduate students and young researchers a comprehensive tutorial in modern neutrino physics specially tailored with emphasis on the educational aspects It provides an overview of the basics and of recent achievements in the field from both experimental and theoretical points of view

Seafood Products Course Lecture Guide John Wingo Long, 1978 Abstract Basic information and the nutritional value of seafood are presented in a curriculum guide for extension agents home economics teachers and laymen Shellfish and fin fish are described in terms of how much to buy how to clean and fillet how to store freezing is recommended and how to cook and serve Composition tables and grade standards are included as well as a glossary of terms Recipes range from Broiled Fillets or Steaks to Fried Scallops and from Herring in Sour Cream to Pickled Oysters

Methodological Approaches to STEM Education Research Volume 1 Peta J. White, Russell Tytler, Joseph Paul Ferguson, John Cripps Clark, 2020-08-13 This book addresses the changing nature of the methodologies that underpin research in mathematics science health and environmental education This is a constantly shifting landscape that educational researchers need to engage with in order for research to continue to impact educational practice The novelty of this book in the context of the existing publishing landscape is that it has a singular focus on methodology and methods not in service of research findings but as something worth considering in itself bringing methodology to the forefront of educational research

Dark Matter In The Universe (Second Edition) - 4th Jerusalem Winter School For Theoretical Physics Lectures John N Bahcall, Tsvi Piran, Steven Weinberg, 2004-09-03 If standard gravitational theory is correct then most of the matter in the universe is in an unidentified form which does not emit enough light to have been

detected by current instrumentation This book is the second edition of the lectures given at the 4th Jerusalem Winter School for Theoretical Physics with new material added The lectures are devoted to the missing matter problem in the universe the search to understand dark matter The goal of this volume is to make current research work on unseen matter accessible to students without prior experience in this area and to provide insights for experts in related research fields Due to the pedagogical nature of the original lectures and the intense discussions between the lecturers and the students the written lectures included in this volume often contain techniques and explanations not found in more formal journal publications

Engineering Trustworthy Software Systems Zhiming Liu, Zili Zhang, 2016-02-29 This volume contains the lecture notes of the five courses and one seminar given at the School on Engineering Trustworthy Software Systems SETSS 2014 held in September 2014 at Southwest University in Chongqing China The material is useful for postgraduate students researchers academics and industrial engineers who are interested in the theory and practice of methods and tools for the design and programming of trustworthy software systems The common themes of the courses include the design and use of theories techniques and tools for software specification and modeling analysis and verification The courses cover sequential programming component and object software hybrid systems and cyber physical systems with challenges of termination security safety security fault tolerance and real time requirements The techniques include model checking correctness by construction through refinement and model transformations synthesis and computer algebra *Eliot's Dark Angel* Ronald Schuchard, 2001 Schuchard's critical study shows how Eliot's personal voice works through the sordid the bawdy the blasphemous and the horrific to create a moral world and the only theory of moral criticism in English literature The book also erodes conventional attitudes toward Eliot's intellectual and spiritual development **Life and Scientific Work of Peter Guthrie Tait** Cargill Gilston Knott, *Eliot's Dark Angel : Intersections of Life and Art* Ronald Schuchard Goodrich C. White Professor of English Emory University, 1999-09-13 Schuchard's critical study draws upon previously unpublished and uncollected materials in showing how Eliot's personal voice works through the sordid the bawdy the blasphemous and the horrific to create a unique moral world and the only theory of moral criticism in English literature The book also erodes conventional attitudes toward Eliot's intellectual and spiritual development showing how early and consistently his classical and religious sensibility manifests itself in his poetry and criticism The book examines his reading his teaching his bawdy poems and his life long attraction to music halls and other modes of popular culture to show the complex relation between intellectual biography and art *Philosophy and the Sciences for Everyone* Michela Massimi, 2014-09-25 What is the origin of our universe What are dark matter and dark energy What is our role in the universe as human beings capable of knowledge What makes us intelligent cognitive agents seemingly endowed with consciousness Scientific research across both the physical and cognitive sciences raises fascinating philosophical questions *Philosophy and the Sciences For Everyone* introduces these questions and more It begins by asking what good is philosophy for the sciences before examining the

following questions The origin of our universe Dark matter and dark energy Anthropic reasoning in philosophy and cosmology Evolutionary theory and the human mind What is consciousness Intelligent machines and the human brain Embodied Cognition Each chapter includes an introduction summary and study questions and there is a glossary of technical terms Designed to be used on the corresponding Philosophy and the Sciences online course offered by the University of Edinburgh this book is also a superb introduction to central topics in philosophy of science and popular science **Life and scientific work of Peter Guthrie Tait** C.G. Knott,1911 *Astrophysics* , **Microbiology** Dave Wessner,Christine Dupont,Trevor Charles,Josh Neufeld,2017-08-28 Microbiology 2nd Edition helps to develop a meaningful connection with the material through the incorporation of primary literature applications and examples The text offers an ideal balance between comprehensive in depth coverage of core concepts while employing a narrative style that incorporates many relevant applications and a unique focus on current research and experimentation The book frames information around the three pillars of physiology ecology and genetics which highlights their interconnectedness and helps students see a bigger picture This innovative organization establishes a firm foundation for later work and provides a perspective on real world applications of microbiology Sidney Chambers and the Perils of the Night James Runcie,2013-01-01 1955 Canon Sidney Chambers loveable priest and part time detective is back Accompanied by his faithful Labrador Dickens and the increasingly exasperated Inspector Geordie Keating Sidney is called to investigate the unexpected fall of a Cambridge don from the roof of King s College Chapel a case of arson at a glamour photographer s studio and the poisoning of Zafar Ali Grantchester s finest spin bowler Alongside his sleuthing Sidney has other problems Can he decide between his dear friend the glamorous socialite Amanda Kendall and Hildegard Staunton the beguiling German widow To make up his mind Sidney takes a trip abroad only to find himself trapped in a web of international espionage just as the Berlin Wall is going up *Catalogs of Courses* University of California, Berkeley,1995 Includes general and summer catalogs issued between 1878 1879 and 1995 1997

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