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**Pierre Léna, Daniel Rouan, François
Lebrun, François Mignard, Didier Pelat**



Astronomical Optics And Elasticity Theory Astronomical Optics And Elasticity Theory:

Astronomical Optics and Elasticity Theory Gérard René Lemaitre, 2008-12-04 Astronomical Optics and Elasticity Theory provides a very thorough and comprehensive account of what is known in this field After an extensive introduction to optics and elasticity the book discusses variable curvature and multimode deformable mirrors as well as in depth active optics its theory and applications Further optical design utilizing the Schmidt concept and various types of Schmidt correctors as well as the elasticity theory of thin plates and shells are elaborated upon Several active optics methods are developed for obtaining aberration corrected diffraction gratings Further a weakly conical shell theory of elasticity is elaborated for the aspherization of grazing incidence telescope mirrors The very didactic and fairly easy to read presentation of the topic will enable PhD students and young researchers to actively participate in challenging astronomical optics and instrumentation projects

Handbook of Optomechanical Engineering Anees Ahmad, 2017-07-11 This comprehensive handbook covers all major aspects of optomechanical engineering from conceptual design to fabrication and integration of complex optical systems The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design development and integration of modern optical systems for commercial space and military applications Charts tables figures and photos augment this already impressive text Fully revised the new edition includes 4 new chapters Plastic optics Optomechanical tolerancing and error budgets Analysis and design of flexures and Optomechanical constraint equations

Fundamentals of Optomechanics Daniel Vukobratovich, Paul Yoder, 2018-01-29 When Galileo designed the tube of his first telescope optomechanics was born Concerned with the shape and position of surfaces in an optical system optomechanics is a subfield of physics that is arguably as old as optics However while universities offer courses on the subject there is a scarcity in textbook selections that skillfully and properly convey optomechanical fundamentals to aspiring engineers Complemented by tutorial examples and exercises this textbook rectifies this issue by providing instructors and departments with a better choice for transmitting to students the basic principles of optomechanics and allowing them to comfortably gain familiarity with the field's content Practicing optical engineers who engage in self study and wish to enhance the extent of their knowledge will also find benefit from the vast experience of the authors The book begins with a discussion of materials based on optomechanical figures of merit and features chapters on windows prisms and lenses The authors also cover topics related to design parameter mounting small mirrors metal mirrors with a discussion of infrared applications and kinematic design Overall Fundamentals of Optomechanics outfits students and practitioners with a stellar foundation for exploring the design and support of optical system surfaces under a wide variety of conditions Provides the fundamentals of optomechanics Presents self contained student friendly prose written by top scientists in the field Discusses materials windows individual lenses and multiple lenses Includes design mounting and performance of mirrors Includes homework problems and a solutions manual for adopting professors

Observational Astrophysics Pierre Léna, Daniel

Rouan, François Lebrun, François Mignard, Didier Pelat, 2012-01-13 This is the updated widely revised restructured and expanded third edition of L. Na et al.'s successful work *Observational Astrophysics*. It presents a synthesis on tools and methods of observational astrophysics of the early 21st century. Written specifically for astrophysicists and graduate students, this textbook focuses on fundamental and sometimes practical limitations on the ultimate performance that an astronomical system may reach rather than presenting particular systems in detail. In little more than a decade there has been extraordinary progress in imaging and detection technologies in the fields of adaptive optics, optical interferometry in the sub-millimetre waveband, observation of neutrinos, discovery of exoplanets, to name but a few examples. The work deals with ground-based and space-based astronomy and their respective fields. And it also presents the ambitious concepts behind space missions aimed for the next decades. Avoiding particulars, it covers the whole of the electromagnetic spectrum and provides an introduction to the new forms of astronomy becoming possible with gravitational waves and neutrinos. It also treats numerical aspects of observational astrophysics, signal processing, astronomical databases and virtual observatories.

Physics, Formation and Evolution of Rotating Stars Andre Maeder, 2008-12-19 Rotation is ubiquitous at each step of stellar evolution from star formation to the final stages and it affects the course of evolution, the timescales and nucleosynthesis. Stellar rotation is also an essential prerequisite for the occurrence of Gamma Ray Bursts. In this book the author thoroughly examines the basic mechanical and thermal effects of rotation, their influence on mass loss by stellar winds, the effects of differential rotation and its associated instabilities, the relation with magnetic fields and the evolution of the internal and surface rotation. Further, he discusses the numerous observational signatures of rotational effects obtained from spectroscopy and interferometric observations as well as from chemical abundance determinations, helioseismology and asteroseismology etc. On an introductory level, this book presents in a didactical way the basic concepts of stellar structure and evolution in track 1 chapters. The other more specialized chapters form an advanced course on the graduate level and will further serve as a valuable reference work for professional astrophysicists. The Roots of Maxwell's A Dynamical

Theory of the Electromagnetic Field Giuseppe Pelosi, Stefano Selleri, 2023 The formulation of Maxwell's equations completely defines the connection between the electric field and the magnetic field, definitively unifying electricity and magnetism and at the same time providing a theoretical synthesis of all the experimental phenomena connected to these areas. In his revolutionary 1864 memoir where J. C. Maxwell presented his equations, he cites a handful of scientists which were at the basis of his Theory. This book, in its first part, presents an insight on all these latter scientists reconstructing the scientific network behind Maxwell's unification and in the second part focuses on the Italians in such a network: Ottaviano Fabrizio Mossotti and Riccardo Felici, with a further insight on the connections between Maxwell and Italy and in particular Tuscany.

Problems and Solutions in Structural Geology and Tectonics, 2019-02-26 *Problems and Solutions in Structural Geology and Tectonics*, Volume 5 in the series *Developments in Structural Geology and Tectonics*, presents students

researchers and practitioners with an all new set of problems and solutions that structural geologists and tectonics researchers commonly face Topics covered include ductile deformation such as strain analyses brittle deformation such as rock fracturing brittle ductile deformation collisional and shortening tectonics thrust related exercises rift and extensional tectonics strike slip tectonics and cross section balancing exercises The book provides a how to guide for students of structural geology and geologists working in the oil gas and mining industries Provides practical solutions to industry related issues such as well bore stability Allows for self study and includes background information and explanation of research and industry jargon Includes full color diagrams to explain 3D issues

Opto-Mechanical Systems Design, Two Volume Set
Paul Yoder, Daniel Vukobratovich, 2018-12-14 Opto Mechanical Systems Design Fourth Edition is different in many ways from its three earlier editions coauthor Daniel Vukobratovich has brought his broad expertise in materials opto mechanical design analysis of optical instruments large mirrors and structures to bear throughout the book Jan Nijenhuis has contributed a comprehensive new chapter on kinematics and applications of flexures and several other experts in special aspects of opto mechanics have contributed portions of other chapters An expanded feature a total of 110 worked out design examples has been added to several chapters to show how the theory equations and analytical methods can be applied by the reader Finally the extended text new illustrations new tables of data and new references have warranted publication of this work in the form of two separate but closely entwined volumes The first volume Design and Analysis of Opto Mechanical Assemblies addresses topics pertaining primarily to optics smaller than 50 cm aperture It summarizes the opto mechanical design process considers pertinent environmental influences lists and updates key parameters for materials illustrates numerous ways for mounting individual and multiple lenses shows typical ways to design and mount windows and similar components details designs for many types of prisms and techniques for mounting them suggests designs and mounting techniques for small mirrors explains the benefits of kinematic design and uses of flexures describes how to analyze various types of opto mechanical interfaces demonstrates how the strength of glass can be determined and how to estimate stress generated in optics and explains how changing temperature affects opto mechanical assemblies The second volume Design and Analysis of Large Mirrors and Structures concentrates on the design and mounting of significantly larger optics and their structures including a new and important topic detailed consideration of factors affecting large mirror performance The book details how to design and fabricate very large single substrate segmented and lightweight mirrors describes mountings for large mirrors with their optical axes in vertical horizontal and variable orientations indicates how metal and composite mirrors differ from ones made of glass explains key design aspects of optical instrument structural design and takes a look at an emerging technology the evolution and applications of silicon and silicon carbide in mirrors and other types of components for optical applications

Opto-Mechanical Systems Design, Volume 2 Paul Yoder, Daniel Vukobratovich, 2017-12-19 Opto Mechanical Systems Design Fourth Edition is different in many ways from its three earlier editions coauthor Daniel

Vukobratovich has brought his broad expertise in materials opto mechanical design analysis of optical instruments large mirrors and structures to bear throughout the book Jan Nijenhuis has contributed a comprehensive new chapter on kinematics and applications of flexures and several other experts in special aspects of opto mechanics have contributed portions of other chapters An expanded feature a total of 110 worked out design examples has been added to several chapters to show how the theory equations and analytical methods can be applied by the reader Finally the extended text new illustrations new tables of data and new references have warranted publication of this work in the form of two separate but closely entwined volumes This second volume Design and Analysis of Large Mirrors and Structures concentrates on the design and mounting of significantly larger optics and their structures including a new and important topic detailed consideration of factors affecting large mirror performance The book details how to design and fabricate very large single substrate segmented and lightweight mirrors describes mountings for large mirrors with their optical axes in vertical horizontal and variable orientations indicates how metal and composite mirrors differ from ones made of glass explains key design aspects of optical instrument structural design and takes a look at an emerging technology the evolution and applications of silicon and silicon carbide in mirrors and other types of components for optical applications

High-Redshift Galaxies Immo Appenzeller, 2009-06-17 The high redshift galaxies became a distinct research field during the final decade of the 20th century At that time the Lyman break technique made it possible to identify significant samples of such objects and the new generation of 8 to 10 m telescopes resulted in the first good spectroscopic data Today the high redshift galaxies have developed into one of the important topics of astrophysics accounting for about 5-10% of the publications in the major scientific journals devoted to astronomy Because high redshift galaxies is a rapidly developing field and since new results are published constantly writing a book on this topic is challenging On the other hand in view of the large amount of individual results now in the literature and in view of the still growing interest in this topic it appears worthwhile to summarize and evaluate the available data and to provide an introduction for those who wish to enter this field or who for various reasons might be interested in its results The end of the first decade of the 21st century appears to be a good point in time to attempt such a summary The current generation of ground based 8 to 10 m optical telescopes the Hubble Space Telescope and the most important large radio telescopes have by now been in operation since about one or two decades Although these instruments will continue to produce important scientific results for some time to come many of the initial programs exploiting their unique new possibilities have been completed

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