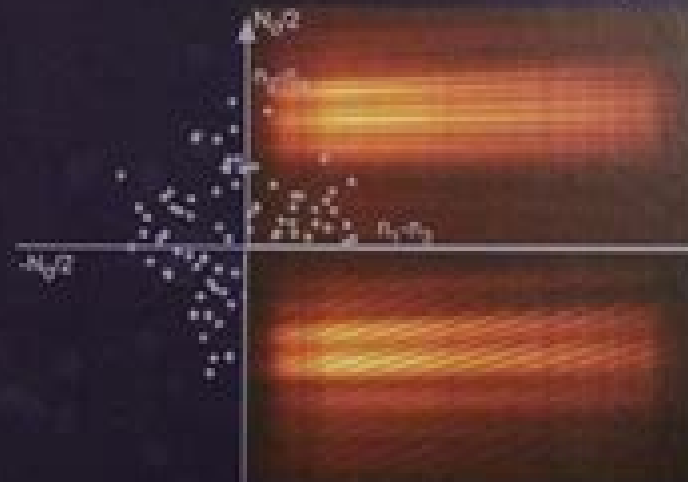


An Introduction to **Optical Stellar  
Interferometry**



A. Labeyrie, S. G. Lipson,  
and P. Nisenson

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## **An Introduction To Optical Stellar Interferometry S G Lipson:**

**An Introduction to Optical Stellar Interferometry** A. Labeyrie, S. G. Lipson, P. Nisenson, 2006-06-29 During the last two decades optical stellar interferometry has become an important tool in astronomical investigations requiring spatial resolution well beyond that of traditional telescopes This book first published in 2006 was the first to be written on the subject The authors provide an extended introduction discussing basic physical and atmospheric optics which establishes the framework necessary to present the ideas and practice of interferometry as applied to the astronomical scene They follow with an overview of historical operational and planned interferometric observatories and a selection of important astrophysical discoveries made with them Finally they present some as yet untested ideas for instruments both on the ground and in space which may allow us to image details of planetary systems beyond our own *An Introduction to Optical Stellar Interferometry* Antoine Labeyrie, Labeyrie a Lipson S G Nisenson P, Stephen G. Lipson, Peter Nisenson, 2014-05-14 This is the first book on optical stellar interferometry It covers the history theory and future uses of interferometric techniques It discusses ideas and instruments used in interferometry for advanced students in physics optics and astronomy with an interest in astronomical interferometry *Principles of Stellar Interferometry* Andreas Glindemann, 2011-01-04 Over the last decade stellar interferometry has developed from a specialist tool to a mainstream observing technique attracting scientists whose research benefits from milliarcsecond angular resolution Stellar interferometry has become part of the astronomer's toolbox complementing single telescope observations by providing unique capabilities that will advance astronomical research This carefully written book is intended to provide a solid understanding of the principles of stellar interferometry to students starting an astronomical research project in this field or to develop instruments and to astronomers using interferometry but who are not interferometrists per se Illustrated by excellent drawings and calculated graphs the imaging process in stellar interferometers is explained starting from first principles on light propagation and diffraction wave propagation through turbulence is described in detail using Kolmogorov statistics the impact of turbulence on the imaging process is discussed both for single telescopes and for interferometers instrumental techniques like beam combination and array layout are described and the requirements for delay lines are derived visibility measurements modulus and phase through turbulence are analyzed and limitations are quantified correction methods fringe tracking and adaptive optics are presented discussing closed loop operation with a dual feed system The book closes with examples of contemporary stellar interferometers and useful appendices on the Fourier transform and atmospheric transmission bands *Optical Physics* Ariel Lipson, Stephen G. Lipson, Henry Lipson, 2010-10-28 This fourth edition of a well established textbook takes students from fundamental ideas to the most modern developments in optics Illustrated with 400 figures it contains numerous practical examples many from student laboratory experiments and lecture demonstrations Aimed at undergraduate and advanced courses on modern optics it is ideal for scientists and engineers The book covers the principles of geometrical and

physical optics leading into quantum optics using mainly Fourier transforms and linear algebra Chapters are supplemented with advanced topics and up to date applications exposing readers to key research themes including negative refractive index surface plasmon resonance phase retrieval in crystal diffraction and the Hubble telescope photonic crystals super resolved imaging in biology electromagnetically induced transparency slow light and superluminal propagation entangled photons and solar energy collectors Solutions to the problems simulation programs key figures and further discussions of several topics are available at [www.cambridge.org/lipson](http://www.cambridge.org/lipson)

**Interference** David D. Nolte, 2023-05-17 Ever wonder why soap bubbles become invisible right before they pop Or why lenses are so blue they look purple How is it possible to image black holes at the heart of distant galaxies The answer to all these questions is Interference This book tells the story of the science of optical interferometry mankind's most sensitive form of measurement and of the scientists who tamed light to make outstanding discoveries from lasers and holograms to astronomy and quantum physics In the past several years interferometry has been used to discover exoplanets orbiting distant stars to take the first image of a black hole to detect the first gravitational waves and to create the first programmable quantum computer This list of achievements points to the fertile and active field of interferometry for which this book provides a convenient and up to date guide for a wide audience interested in the science of light

*Introduction to Quantum Science and Technology* David S. Simon, 2025-03-17 This textbook serves as a comprehensive introduction to quantum technology for advanced undergraduate and beginning graduate students in physics and engineering It provides readers with an in depth overview of the wide range of quantum technology applications from more well known areas of quantum computing and quantum cryptography to lesser known applications such as quantum communication quantum assisted measurement and sensing and quantum microscopy This book only assumes that the reader has had the standard courses in quantum mechanics and electromagnetism that are normally taken by physics majors during their sophomore or junior years The overall structure of this textbook is divided into four parts Part I covers background material in elementary quantum mechanics electromagnetism optics solid state physics and other areas Since the quantum states required for applications can exist in many types of physical systems a broad background in many areas of physics is needed This part of the book aims to ensure that all students have the necessary prerequisites and to fill any gaps in their prior backgrounds Part II covers additional topics in quantum mechanics beyond the basics This includes topics such as interference of quantum states unusual quantum effects that can be useful for applications and the quantification of the amount of information carried by a quantum state Part III is the heart of the book discussing applications of the material from the previous chapters to real world problems such as high precision measurement high resolution microscopy quantum cryptography and quantum information processing Part IV covers more practical aspects discussing detectors light sources atomic systems and other topics that are essential for experimental implementation applications that were described from a more theoretical viewpoint in Part III Each chapter also contains

worked examples additional problems as well as supplementary highlighted boxes containing interesting applications historical asides advanced topics or recent cutting edge developments This self contained textbook provides a foundation for undergraduates that will prepare them to immediately enter quantum based graduate research or to give them a head start when seeking employment in quantum related industries

**Interferometry and Synthesis in Radio Astronomy A.**  
Richard Thompson, James M. Moran, George W. Swenson Jr., 2017-02-22 This book is open access under a CC BY NC 4.0 license The third edition of this indispensable book in radio interferometry provides extensive updates to the second edition including results and technical advances from the past decade discussion of arrays that now span the full range of the radio part of the electromagnetic spectrum observable from the ground 10 MHz to 1 THz an analysis of factors that affect array speed and an expanded discussion of digital signal processing techniques and of scintillation phenomena and the effects of atmospheric water vapor on image distortion among many other topics With its comprehensiveness and detailed exposition of all aspects of the theory and practice of radio interferometry and synthesis imaging this book has established itself as a standard reference in the field It begins with an overview of the basic principles of radio astronomy a short history of the development of radio interferometry and an elementary discussion of the operation of an interferometer From this foundation it delves into the underlying relationships of interferometry sets forth the coordinate systems and parameters to describe synthesis imaging and examines configurations of antennas for multielement synthesis arrays Various aspects of the design and response of receiving systems are discussed as well as the special requirements of very long baseline interferometry VLBI image reconstruction and recent developments in image enhancement techniques and astrometric observations Also discussed are propagation effects in the media between the source and the observer and radio interference factors that limit performance Related techniques are introduced including intensity interferometry optical interferometry lunar occultations tracking of satellites in Earth orbit interferometry for remote Earth sensing and holographic measurements of antenna surfaces This book will benefit anyone who is interested in radio interferometry techniques for astronomy astrometry geodesy or electrical engineering

*Fiber-Optic-Based Sensing Systems* Lazo M. Manojlović, 2022-06-01 The need for both intrinsic and extrinsic fiber optic sensor technologies continues to grow To meet the demands of this fast expanding applications driven market this book discusses both the latest advances and recent application opportunities along with the basic optical phenomena with the main emphasis on applying optical knowledge for solving real life engineering problems Key features of the book Highlights the uniqueness of fiber optics sensors Presents state of the art technology in optical fiber sensors Discusses a variety of fiber optic topologies Considers different detection techniques Gives special attention to distributed fiber optic sensing systems Basic tools and concepts are presented in the earlier chapters which are then developed in more detail in the later chapters The book is organized in seven chapters covering a broad range of fiber optical sensing phenomena Written for undergraduate and graduate students who want to broaden their knowledge of fiber optic

sensing system applications for real life engineering problems the volume is also valuable for engineers who want to acquire the basic principles of optics especially fiber optics      Wspc Handbook Of Astronomical Instrumentation, The (In 5 Volumes),2021-05-07 Our goal is to produce a comprehensive handbook of the current state of the art of astronomical instrumentation with a forward view encompassing the next decade The target audience is graduate students with an interest in astronomical instrumentation as well as practitioners interested in learning about the state of the art in another wavelength band or field closely related to the one in which they currently work We assume a working knowledge of the fundamental theory optics semiconductor physics etc The purpose of this handbook is to bring together some of the leading experts in the world to discuss the frontier of astronomical instrumentation across the electromagnetic spectrum and extending into multimessenger astronomy      **Measuring the Universe** George H. Rieke,2017-05-25 Astronomy is an observational science renewed and even revolutionized by new developments in instrumentation With the resulting growth of multiwavelength investigation as an engine of discovery it is increasingly important for astronomers to understand the underlying physical principles and operational characteristics for a broad range of instruments This comprehensive text is ideal for graduate students active researchers and instrument developers It is a thorough review of how astronomers obtain their data covering current approaches to astronomical measurements from radio to gamma rays The focus is on current technology rather than the history of the field allowing each topic to be discussed in depth Areas covered include telescopes detectors photometry spectroscopy adaptive optics and high contrast imaging millimeter wave and radio receivers radio and optical infrared interferometry and X ray and gamma ray astronomy all at a level that bridges the gap between the basic principles of optics and the subject s abundant specialist literature Color versions of figures and solutions to selected problems are available online at [www.cambridge.org/9780521762298](http://www.cambridge.org/9780521762298)      **Paradigm of Optical Imaging** Swapan K. Saha,2025-10-14 This book deals with various aspects of optical imaging such as technologies and design evaluation and calibration and their scientific applications and results It discusses the fundamental aspects of optical imaging Fourier optics and imaging physics with emphasis on image retrieval techniques and anatomy and diagnostics of optical imaging systems In addition to ray optics the book describes the technical details of several important instruments such as spectroscopes microscopes telescopes interferometers and medical diagnosis related instruments Added further are the factors that affect the quality of the images speckles and holography and passive and active methods that permit a telescope to achieve diffraction limited imaging from the ground The book will be a valuable resource for astronomers and students involved in the design of modern instrumentation or those attempting to make use of data with instrumentation designed by others      **Progress in Optics**,2017-03-27 Progress in Optics Volume 62 an ongoing series contains more than 300 review articles by distinguished research workers that have become permanent records for many important developments In this updated volume users will find valuable updates on topics such as optical testing the modern aspects of intensity interferometry with classical light the

generation of partially coherent beams optical models and symmetries and more This book's contributions have become standard references in scientific articles providing the state of the art to researchers and practitioners who work in the field of optics Contains comprehensive in depth reviews Includes contributions from leading authorities Informs and updates on all the latest developments in the field Presents timely and state of the art reviews *With Stars in Their Eyes* James B.

Breckinridge, Alec M. Pridgeon, 2022-04-29 This book details the lives of two married geniuses Aden and Marjorie Meinel who helped to pioneer modern optics and solar energy in the U S Aden B Meinel and Marjorie P Meinel stood at the confluence of several overarching technological developments during their lifetimes including postwar aerial surveillance by spy planes and satellites solar energy the evolution of telescope design interdisciplinary optics and photonics Yet their incredible stories and their long list of scientific contributions have never been adequately recognized in one place In this book James Breckinridge and Alec M Pridgeon correct this oversight by sharing the story of this powerful duo The book follows their lives and covers large scientific developments between World War II to the Cold War James B Breckinridge a previous advisee and later colleague to the Meinels and historian and scientist Alec M Pridgeon collected more than 200 hours of oral interviews with those who worked closely with the Meinels and some who built their careers around the findings made possible by their work The book shares and analyzes the work done by the Meinels and it also includes incredible insights from an unpublished Meinel autobiography **Extrasolar Planets and Their Host Stars** Kaspar von Braun, Tabetha

Boyajian, 2017-07-18 This book explores the relations between physical parameters of extrasolar planets and their respective parent stars Planetary parameters are often directly dependent upon their stellar counterparts In addition the star is almost always the only visible component of the system and contains most of the system mass Consequently the parent star heavily influences every aspect of planetary physics and astrophysics Drs Kaspar von Braun and Tabetha Boyajian use direct methods to characterize exoplanet host stars that minimize the number of assumptions needed to be made in the process The book provides a background on interferometric techniques for stellar diameter measurements illustrates the authors approach on using additional data to fully characterize the stars provides a comprehensive update on the current state of the field and examines in detail a number of historically significant and well studied exoplanetary systems *Principles Of*

*Astrophotonics* Simon Ellis, Joss Bland-hawthorn, Sergio Leon Saval, 2023-03-14 Astrophotonics is the application of photonics to astronomical instrumentation It is a rapidly developing field that takes a new approach to instrumentation in which the bulk optics of traditional instruments such as lenses mirrors and diffraction gratings are replaced with devices embedded within waveguides This enables instruments that are smaller modular more stable and most excitingly with optical capabilities not possible with traditional instruments Astrophotonics has reached a stage of development where many prototype devices are now being tested on sky and the first fully fledged instruments incorporating photonic devices are now being used for observations The field is thus transitioning from one of instrumental research and development to mainstream

observational astrophysics This is the first book focussed on astrophotonics written by three experts in the field Beginning with a sound introduction to the basic principles of astrophotonics it is intended to communicate the current status potential and future possibilities of astrophotonics to the wider astronomical optics and photonics communities **High Time Resolution Astrophysics** Don Phelan, Oliver Ryan, Andrew Shearer, 2007-10-23 High Time Resolution Astrophysics HTRA is an important new window to the universe and a vital tool in understanding a range of phenomena from diverse objects and radiative processes This importance is demonstrated in this volume with the description of a number of topics in astrophysics including quantum optics cataclysmic variables pulsars X ray binaries and stellar pulsations to name a few Underlining this science foundation technological developments in both instrumentation and detectors are described These instruments and detectors combined cover a wide range of timescales and can measure fluxes spectra and polarisation These advances make it possible for HTRA to make a big contribution to our understanding of the Universe in the next decade *High Resolution Imaging* Swapan K. Saha, 2015-01-28 Interferometric observations need snapshots of very high time resolution of the order of i frame integration of about 100 Hz or ii photon recording rates of several megahertz MHz Detectors play a key role in astronomical observations and since the explanation of the photoelectric effect by Albert Einstein the technology has evolved rather Cooperative Control Design He Bai, Murat Arcak, John Wen, 2011-06-03 Cooperative Control Design A Systematic Passivity Based Approach discusses multi agent coordination problems including formation control attitude coordination and synchronization The goal of the book is to introduce passivity as a design tool for multi agent systems to provide exemplary work using this tool and to illustrate its advantages in designing robust cooperative control algorithms The discussion begins with an introduction to passivity and demonstrates how passivity can be used as a design tool for motion coordination Followed by the case of adaptive redesigns for reference velocity recovery while describing a basic design a modified design and the parameter convergence problem Formation control is presented as it relates to relative distance control and relative position control The coverage is concluded with a comprehensive discussion of agreement and the synchronization problem with an example using attitude coordination **Waves and Oscillations in Nature** A Satya Narayanan, Swapan K Saha, 2015-05-21 Suitable for researchers and graduate students in fluid dynamics astrophysics and other areas of physics this book clearly elucidates the dynamics and behavior of waves and oscillations in various mediums It presents different types of waves and oscillations that can be observed and studied from macroscopic to microscopic scales The authors describe applications in astrophysics include simple exercises to give readers a hands on grasp of the basics and provide a large list of bibliographic sources that enable readers to research more technical aspects Aperture Synthesis Swapan Kumar Saha, 2010-10-17 This book deals with the fundamentals of stellar interferometry with emphasis on aperture synthesis using sparse array of telescopes particularly at optical IR wavelengths the origin properties and optical effects of turbulence in the Earth s atmosphere techniques developed to overcome image degradation Studded with more than one hundred and

fifty illustrations and tens of footnotes it addresses the basic tricks of trade current trend motivation methods and path to future promise of true interferometry both from the ground and space Also discussed are the technical challenge involved such as beam transportation and recombination detecting fringes using modern sensors and image synthesis Astronomical science that benefits from aperture synthesis imaging are highlighted as well

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