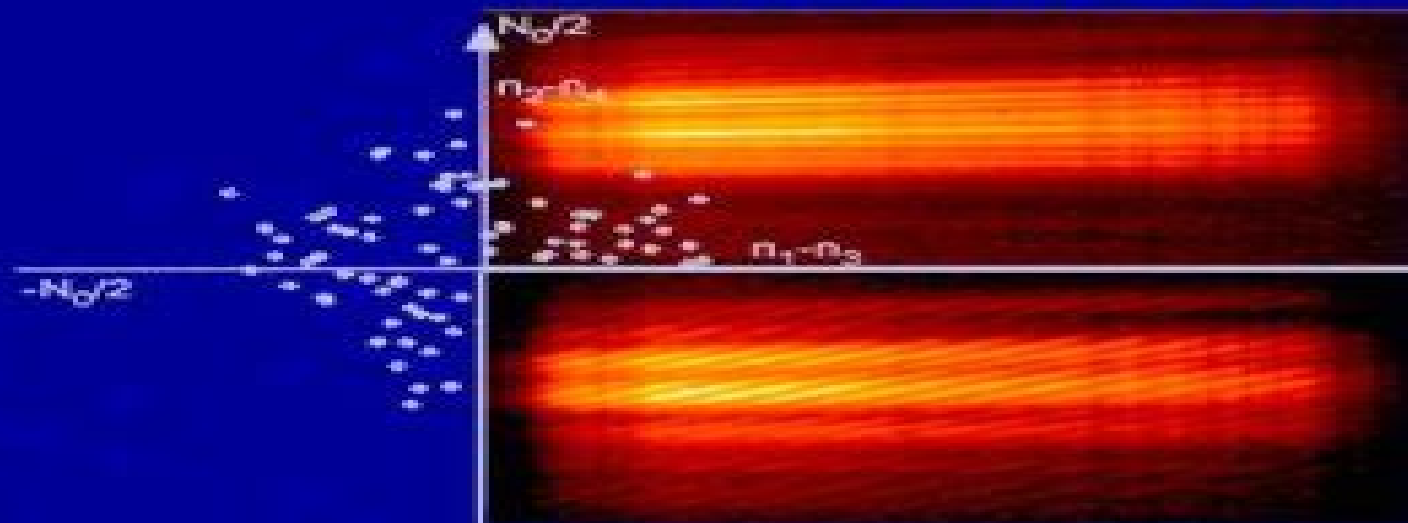


An Introduction to **Optical Stellar Interferometry**



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

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Daniel F McAuley



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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 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

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

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

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

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