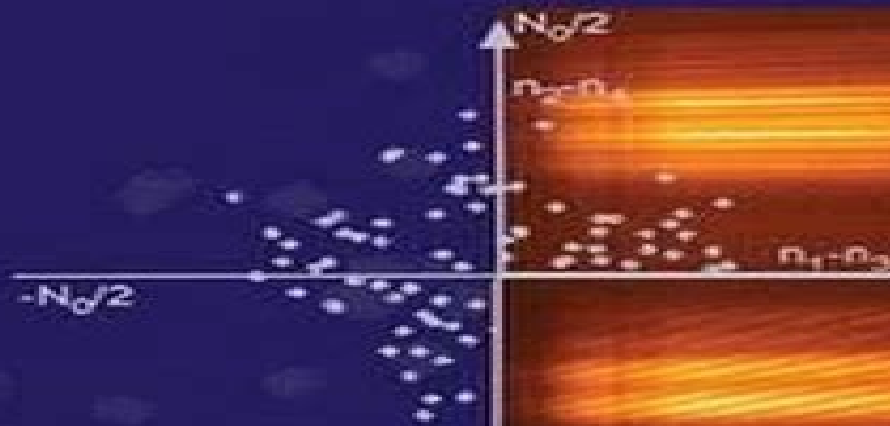


# An Introduction to **Optical Stellar Interferometry**



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

# An Introduction To Optical Stellar Interferometry S G Lipson

**Lazo M. Manojlović**



## **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

**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

**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

*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

**Adaptive Optics for Astronomical Telescopes** John W. Hardy, 1998

This book by one of the leaders in adaptive optics covers the fundamental theory and then describes in detail how this technology can be applied to large ground based telescopes to compensate for the effects of atmospheric turbulence It includes information on basic adaptive optics components and technology and has chapters devoted to atmospheric turbulence optical image structure laser beacons and overall system design The chapter on system design is particularly detailed and includes performance estimation and optimization Combining a clear discussion of physical principles with numerous real world examples this book will be a valuable resource for all graduate students and researchers in astronomy and optics

*Handbook on Array Processing and Sensor Networks* Simon Haykin, K. J. Ray Liu, 2010-02-12

A handbook on recent advancements and the state of the art in array processing and sensor Networks Handbook on Array Processing and Sensor Networks provides readers with a collection of tutorial articles contributed by world renowned experts on recent advancements and the state of the art in array processing and sensor networks Focusing on fundamental principles as well as applications the handbook provides exhaustive coverage of wavelets spatial spectrum estimation MIMO radio propagation robustness issues in sensor array processing wireless communications and sensing in multi path environments using multi antenna transceivers implicit training and array processing for digital communications systems unitary design of radar waveform diversity sets acoustic array processing for speech enhancement acoustic beamforming for hearing aid applications undetermined blind source separation using acoustic arrays array processing in astronomy digital 3D 4D ultrasound imaging technology self localization of sensor networks multi target tracking and classification in collaborative sensor networks via sequential Monte Carlo energy efficient decentralized estimation sensor data fusion with application to multi target tracking distributed algorithms in sensor networks cooperative communications distributed source coding network coding for sensor networks information theoretic studies of wireless networks distributed adaptive learning mechanisms routing for statistical inference in sensor networks spectrum estimation in cognitive radios nonparametric techniques for pedestrian tracking in wireless local area networks signal processing and networking via the theory of global games biochemical transport modeling estimation and detection in realistic environments and security and privacy for sensor

networks Handbook on Array Processing and Sensor Networks is the first book of its kind and will appeal to researchers professors and graduate students in array processing sensor networks advanced signal processing and networking

**The Interferometric View on Hot Stars** Thomas Rivinius, Michel Curé, 2010 The workshop Interferometric View on Hot Stars of which we present the proceedings with this volume was held to bring together observers and theoreticians to outline a wishlist of future observing goals as well as the theoretical frontiers which can be expanded in light of the current and in the near future expected results Page vii

**Optics Letters** ,2007 **Journal of the Optical Society of America** ,1990

*The British National Bibliography* Arthur James Wells, 2006 **Sterne und Weltraum** ,2007 Annuaire du Collège de France Collège de France, 2006 *Physics Briefs* ,1990 **Selected Papers on Adaptive Optics and Speckle Imaging** Devon G. Crowe, 1994 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

**Selected Papers on Adaptive Optics for Atmospheric Compensation** James E. Pearson, 1994 **Paperbound Books in Print** ,1984 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

**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      **Aperture Synthesis** Swapan Kumar Saha,2010-11-04  
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

## Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **An Introduction To Optical Stellar Interferometry S G Lipson**

In some sort of inundated with displays and the cacophony of instant communication, the profound energy and psychological resonance of verbal art frequently disappear into obscurity, eclipsed by the constant onslaught of noise and distractions. However, situated within the musical pages of **An Introduction To Optical Stellar Interferometry S G Lipson**, a fascinating function of fictional splendor that impulses with organic feelings, lies an memorable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that interesting opus guides visitors on a psychological odyssey, softly exposing the latent potential and profound impact stuck within the complicated internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is main themes, dissect its interesting publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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