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OPTICAL ASTRONOMICAL SPECTROSCOPY

C R KITCHIN



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Optical Astronomical Spectroscopy John Charles Castley, 1969

Optical Astronomical Spectroscopy with an Electronographic Image Tube David John King, 1974

Optical 3D-Spectroscopy for Astronomy Roland Bacon, Guy Monnet, 2017-03-01 Over the last 50 years a variety of techniques have been developed to add a third dimension to regular imaging with an extended spectrum associated to every imaging pixel Dubbed 3D spectroscopy from its data format it is now widely used in the astrophysical domain but also inter alia for atmospheric sciences and remote sensing purposes This is the first book to comprehensively tackle these new capabilities It starts with the fundamentals of spectroscopic instruments in particular their potentials and limits It then reviews the various known 3D techniques with particular emphasis on pinpointing their different ecological niches Putative users are finally led through the whole observing process from observation planning to the extensive and crucial phase of data reduction This book overall goal is to give the non specialist enough hands on knowledge to learn fast how to properly use and produce meaningful data when using such a 3D capability

Optical Astronomical Instrumentation Sandro D'Odorico, 1998 Divided into three sections these symposium papers cover instrumentation for the VLT and Keck telescopes instrumentation for the Gemini converted MMT and Magellan telescopes and wide field cameras and novel instruments

Astronomical Spectroscopy for Amateurs Ken M. Harrison, 2011-02-07 Astronomical Spectroscopy for Amateurs is a complete guide for amateur astronomers who are looking for a new challenge After a brief overview of the development of spectroscopes and an introduction to the theory of stellar spectra the book goes on to examine the various types of spectroscopes available to amateurs Next practical sections address all aspects of setting up and using various types of commercially available and home built spectroscopes A final part gives detailed instructions for the design and construction

of three different spectroscopes along with the necessary design theory minimal math The home made spectroscopes have performance capabilities near or equal to commercial units but are constructed using basic hand tools for a fraction of the cost This up to date practical spectroscopy book will enable amateur astronomers to develop the skills and equipment needed to prepare scientifically acceptable spectra data and to make a valuable contribution to ProAm projects *Introduction to Astronomical Spectroscopy* Immo Appenzeller, 2013 The book introduces graduate students and young researchers of astronomy and physics to the techniques and methods of astronomical spectroscopy It covers spectroscopic methods in all branches of astronomy including optical astronomy radio astronomy and astronomy at X ray and gamma ray wavelengths The book will also be of interest for engineers and technicians who are designing or operating optical and space instrumentation

Optical Astronomical Instrumentation S. D'Odorico, Society of Photo-optical Instrumentation Engineers, 1998

National Optical Astronomy Observatories Newsletter, 1997 *Instrumentation for Large Telescopes* Jose M. Rodriguez Espinosa, A. HERRERO (Ed), Francisco Sánchez, 1997-10-09 A new generation of large ground based telescopes are just coming into operation They will take astronomical research well into the next century These extremely powerful telescopes demand specially designed instruments and observing techniques The VII Canary Islands Winter School of Astrophysics gathered together leading experts from around the world to review this technology Based on the meeting this timely volume presents eight specially written chapters covering all aspects of telescope instrumentation This book provides an essential reference for all astronomers who will be the users of these large telescopes It reviews both the challenges involved in designing successful instrumentation and the questions in astronomy they must address We are taken from the fundamentals of astronomical imaging low and high resolution spectroscopy and polarimetry up to the state of the art technology in adaptive optics and laser guide stars interferometry image pattern recognition and optical near and mid infrared arrays This timely volume provides an excellent introduction for graduate students and an invaluable reference for researchers using the latest generation of large astronomical telescopes **Multi-object Astronomical Spectroscopy**

with Optical Fibres F. G. Watson, University of Edinburgh, 1987 **Spectroscopic Instrumentation** Thomas Eversberg, Klaus Vollmann, 2014-11-10 In order to analyze the light of cosmic objects particularly at extremely great distances spectroscopy is the workhorse of astronomy In the era of very large telescopes long term investigations are mainly performed with small professional instruments Today they can be done using self designed spectrographs and highly efficient CCD cameras without the need for large financial investments This book explains the basic principles of spectroscopy including the fundamental optical constraints and all mathematical aspects needed to understand the working principles in detail It covers the complete theoretical and practical design of standard and Echelle spectrographs Readers are guided through all necessary calculations enabling them to engage in spectrograph design The book also examines data acquisition with CCD cameras and fiber optics as well as the constraints of specific data reduction and possible sources of error In

closing it briefly highlights some main aspects of the research on massive stars and spectropolarimetry as an extension of spectroscopy The book offers a comprehensive introduction to spectroscopy for students of physics and astronomy as well as a valuable resource for amateur astronomers interested in learning the principles of spectroscopy and spectrograph design

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Optical MEMS, Nanophotonics, and Their Applications Guangya Zhou,Chengkuo Lee,2017-12-14 This book covers device design fundamentals and system applications in optical MEMS and nanophotonics Expert authors showcase examples of how fusion of nanoelectromechanical NEMS with nanophotonic elements is creating powerful new photonic devices and systems including MEMS micromirrors MEMS tunable filters MEMS based adjustable lenses and apertures NEMS driven variable silicon nanowire waveguide couplers and NEMS tunable photonic crystal nanocavities The book also addresses system applications in laser scanning displays endoscopic systems space telescopes optical telecommunication systems and biomedical implantable systems Presents efforts to scale down mechanical and photonic elements into the nano regime for enhanced performance faster operational speed greater bandwidth and higher level of integration Showcases the integration of MEMS and optical photonic devices into real commercial products Addresses applications in optical telecommunication sensing imaging and biomedical systems Prof Vincent C Lee is Associate Professor in the Department of Electrical and Computer Engineering National University of Singapore Prof Guangya Zhou is Associate Professor in the Department of Mechanical Engineering at National University of Singapore

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Astrophysics Update John Mason,2003-12-02 Written by leading exponents in the field this collection of timely reviews presents observational methods and the latest results of astronomical research as well as their theoretical foundations and interrelations providing information and scientifically rigorous coverage

Recent Progress in Optical Fiber Research Moh Yasin,Sulaiman Wadi Harun,Hamzah Arof,2012-01-25 This book presents a comprehensive account of the recent progress in optical fiber research It consists of four sections with 20 chapters covering the topics of nonlinear and polarisation effects in optical fibers photonic crystal fibers and new applications for optical fibers Section 1 reviews nonlinear effects in optical fibers in terms of theoretical analysis experiments and applications Section 2 presents polarization mode dispersion chromatic dispersion and polarization dependent losses in optical fibers fiber birefringence effects and spun fibers Section 3 and 4 cover the topics of photonic crystal fibers and a new trend of optical fiber applications Edited by three scientists with wide knowledge and experience in the field of fiber optics and photonics the book brings together leading academics and practitioners in a comprehensive and incisive treatment of the subject This is an essential point of reference for researchers working and teaching in optical fiber technologies and for industrial users who need to be aware of current developments in optical fiber research areas

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Techniques C.R. Kitchin, 2020-07-27 Long used in undergraduate and introductory graduate courses Astrophysical Techniques Seventh Edition provides an accessible yet comprehensive account of the innovative instruments, detectors, and techniques employed in astronomy and astrophysics. Emphasizing the underlying unity of all astronomical observations, this popular textbook provides a coherent state-of-the-art account of the instruments and techniques used in current astronomy and astrophysics. Fully updated throughout, this seventh edition builds upon the sixth edition, covering improved techniques and cutting-edge methods in the field, as well as other exciting new developments in gravitational waves, dark matter, and energy, the use of photonics, and astronomy education and outreach, in addition to further detailed discussions on the latest scientific instruments and individual detectors. The book is written in a very accessible manner, and most of the mathematics is accessible to those who have attended a mathematics course in their final years at school. Nevertheless, the treatment of the topics in general is at a sufficiently high level to be of use to those professionals seeking technical information in areas of astronomy with which they might not be completely familiar.

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