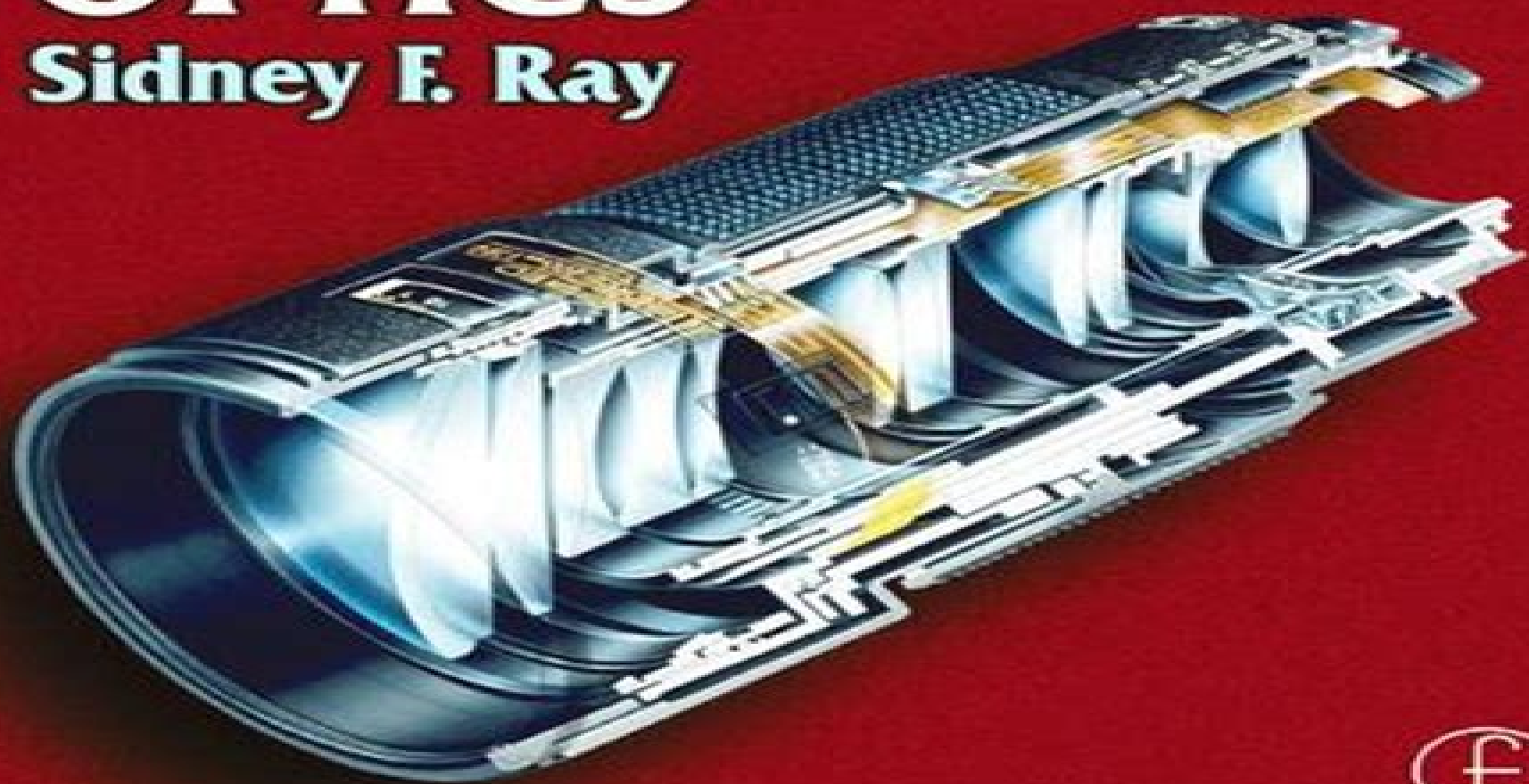


THIRD EDITION

APPLIED PHOTOGRAPHIC OPTICS

Sidney F. Ray



Applied Photographic Optics Sidney Ray

Michael R. Peres



Applied Photographic Optics Sidney Ray:

Applied Photographic Optics Sidney Ray, 2002-02-20 Selected by the American Library Association's Choice magazine as best technical book the first edition of this book soon established itself as the standard reference work on all aspects of photographic lenses and associated optical systems This is unsurprising as Sidney Ray provides a complete comprehensive reference source for anyone wanting information on photographic lenses from the student to the practitioner or specialist working with visual and digital media worldwide This third edition has been fully revised and expanded to include the rapid progress in the last decade in optical technology and advances in relevant electronic and digital forms of imaging Every chapter has been revised and expanded using new figures and photographs as appropriate as well as extended bibliographies New chapters include details of filters measurements from images and the optical systems of digital cameras Details of electronic and digital imaging have been integrated throughout More information is given on topics such as aspherics diffractive optics ED glasses image stabilization optical technology video projection and new types of lenses A selection of the contents includes chapters on optical theory aberrations auto focus lens testing depth of field development of photographic lenses general properties of lenses wide angle lenses telephoto lenses video lenses viewfinder systems camera movements projection systems and 3 D systems

Applied Photographic Optics Sidney F. Ray, 1994 **Applied Photographic Optics** Sidney F. Ray, 1988 **Lens Design Fundamentals** Rudolf Kingslake, R. Barry Johnson, 2009-11-20 Thoroughly revised and expanded to reflect the substantial changes in the field since its publication in 1978 Strong emphasis on how to effectively use software design packages indispensable to today's lens designer Many new lens design problems and examples ranging from simple lenses to complex zoom lenses and mirror systems give insight for both the newcomer and specialist in the field Rudolf Kingslake is regarded as the American father of lens design his book not revised since its publication in 1978 is viewed as a classic in the field Naturally the area has developed considerably since the book was published the most obvious changes being the availability of powerful lens design software packages theoretical advances and new surface fabrication technologies This book provides the skills and knowledge to move into the exciting world of contemporary lens design and develop practical lenses needed for the great variety of 21st century applications Continuing to focus on fundamental methods and procedures of lens design this revision by R Barry Johnson of a classic modernizes symbology and nomenclature improves conceptual clarity broadens the study of aberrations enhances discussion of multi mirror systems adds tilted and decentered systems with eccentric pupils explores use of aberrations in the optimization process enlarges field flattener concepts expands discussion of image analysis includes many new exemplary examples to illustrate concepts and much more Optical engineers working in lens design will find this book an invaluable guide to lens design in traditional and emerging areas of application it is also suited to advanced undergraduate or graduate course in lens design principles and as a self learning tutorial and reference for the practitioner Rudolf Kingslake 1903 2003 was a founding

faculty member of the Institute of Optics at The University of Rochester 1929 and remained teaching until 1983 Concurrently in 1937 he became head of the lens design department at Eastman Kodak until his retirement in 1969 Dr Kingslake published numerous papers books and was awarded many patents He was a Fellow of SPIE and OSA and an OSA President 1947 48 He was awarded the Progress Medal from SMPTE 1978 the Frederic Ives Medal 1973 and the Gold Medal of SPIE 1980 R Barry Johnson has been involved for over 40 years in lens design optical systems design and electro optical systems engineering He has been a faculty member at three academic institutions engaged in optics education and research co founder of the Center for Applied Optics at the University of Alabama in Huntsville employed by a number of companies and provided consulting services Dr Johnson is an SPIE Fellow and Life Member OSA Fellow and an SPIE President 1987 He published numerous papers and has been awarded many patents Dr Johnson was founder and Chairman of the SPIE Lens Design Working Group 1988 2002 is an active Program Committee member of the International Optical Design Conference and perennial co chair of the annual SPIE Current Developments in Lens Design and Optical Engineering Conference Thoroughly revised and expanded to reflect the substantial changes in the field since its publication in 1978 Strong emphasis on how to effectively use software design packages indispensable to today's lens designer Many new lens design problems and examples ranging from simple lenses to complex zoom lenses and mirror systems give insight for both the newcomer and specialist in the field

Scientific Photography and Applied Imaging Sidney Ray, 1999-08-02 WINNER OF THE 2001 KRASZNA KRAUSZ PHOTOGRAPHY BOOK AWARD Technical Photography category The only definitive book to fully encompass the use of photography and imaging as tools in science technology and medicine It describes in one single volume the basic theory techniques materials special equipment and applications for a wide variety of uses of photography including close up photography and photomacrography to spectral recording surveillance systems radiography and micro imaging This extensively illustrated photography bible contains all the information you need whether you are a scientist wishing to use photography for a specialist application a professional needing to extend technical expertise or a student wanting to broaden your knowledge of the applications of photography The contents are arranged in three sections General Section detailing the elements of the image capture process Major Applications describing the major applications of imaging Specialist Applications presenting an eclectic selection of more specialised but increasingly important applications Each subject is introduced with an outline of its development and contemporary importance followed by explanations of essential theory and an overview of techniques and equipment Mathematics is only used where necessary Numerous applications and case studies are described Comprehensive bibliographies and references are provided for further study **The Science of Imaging** Graham Saxby, 2001-12-01 A genuine introduction to the subject The Science of Imaging An Introduction keeps the mathematics to a minimum and is copiously littered with examples It takes the reader on a grand tour of imaging Starting with the fundamentals of light and basic cameras the authors journey through television and holography to advanced

scientific and medical imaging Topics such as digital recording of images the photographic process and film development are dealt with in an informative and entertaining manner **The Science of Imaging, Second Edition** Graham

Saxby, 2010-11-19 Edited and expanded to keep pace with the digital revolution the new edition of this highly popular and critically acclaimed work provides a comprehensive exploration of imaging science Brilliantly written and extensively illustrated The Science of Imaging An Introduction Second Edition covers the fundamental laws of physics as well as the cutting edge techniques defining current and future directions in the field Improvements to this Edition Include A new chapter on astronomical imaging A larger format with a wealth of illustrations Major revisions in the areas of digital imaging and modern technology Updated references with links to a wealth of online resources including teaching material and expanded information This accessible introduction to the subject takes students on a grand tour of imaging Starting with the fundamentals of light and basic cameras the author journeys through television and holography to advanced scientific and medical imaging He highlights essential formulas while keeping the complex mathematics to a minimum Copiously illustrated with a wealth of examples and a 16 page color insert the text covers optics imaging systems materials and image interpretation and creation in a manner that makes it easy to understand Praise for the critically acclaimed First Edition It is the best book I have read on the subject at this level Ron Graham RPS Journal every student should read it every photographer should own it and every lecturer and journalist should know its contents inside out Jon Tarrant British Journal of Photography **Multiskilling for Television Production** Peter Ward, Alan Bermingham, Chris Wherry, 2000-05-22

Written by television trainers who run their own courses on Multiskilling this book offers a comprehensive introduction to the broad range of skills and technical knowledge required in this industry It details all the essential information you need to know acting as an on the job reference source for everyday use For many broadcasting technicians one of the biggest challenges in recent years has been the transition from a career working in a solo core skill such as camerawork or audio to acquiring the experience and expertise of a range of production jobs Many people are expected to work in a number of crafts and to equip themselves with a much wider range of television techniques than had been customary in the past Multiskilling has become an integral part of television culture requiring that new entrants are competent in several specialist production skills Multiskilling for Television Production concentrates on the techniques associated with news and magazine programme production where most technical operators are usually employed but most techniques are shared across the whole spectrum of television and film making Anyone baffled by the range and scope of skills to be mastered will find this book invaluable

Natural Science Imaging and Photography Michael R. Peres, 2021-03-11 This book provides an in depth exploration of scientific photography Highlighting the best practices needed to make distribute and preserve scientific visual information using digital photographic methods and technologies it offers solutions to some of the biggest challenges facing photographers Written by a team of international award winning image makers with over 300 years of cumulative experience

this comprehensive resource explains the foundations used the tools required and the steps to needed for creating the optimal photograph in a range of environments and circumstances Topics covered include ethical practices aerial photography close up and macro photography computational photography field photography geological photography imaging with invisible spectrums photographing small animals in captivity time based imaging image processing in science Showcasing modern methods this book equips readers with the skills needed to capture and process the best image possible Designed for basic and intermediate photographers Natural Science Imaging and Photography exists as an essential contemporary handbook **The British Journal of Photography** ,1994

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