

Sidney Ray Applied Photographic Optics

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Photoresearcher 1990

LC Science Tracer Bullet 1994

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's 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

The Cumulative Book Index 1988

Cumulative Book Index 1995 A world list of books in the English language.

Choice 1989

View Camera 2003

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.

Optics Index 1990

The British Journal of Photography 1989

American Cinematographer 2007

Applied Photographic Optics Sidney F. Ray 2002 First Published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

Applied Photographic Optics Sidney F. Ray 1994 The first edition of Applied Photographic Optics established itself as the standard reference work on all aspects of photographic lenses and their applications. This second edition of this highly acclaimed book has been expanded and updated to take into account the rapid progress in optical technology and electronic imaging in the last decade. It now includes all contemporary lenses and optical systems and many chapters have been rewritten, including those on autofocus, video lenses, video optics, and optical technology. Relevant aspects of electronic imaging have been integrated throughout, and there are more details on aspherics, ID glasses, lens manufacture and coating, video projection, image stabilizing, and diffractive optics.

Machine Vision Applications in Industrial Inspection 1997

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The Manual of Photography Ralph E. Jacobson 1988 This eighth edition of a work first published almost 100 years ago, provides a major revision of this technical reference source for photographers. New chapters include autofocus systems, metering systems in cameras, still video cameras and archival aspects.

New Books in the Communications Library University of Illinois at Urbana-Champaign. Communications Library 1989

The Manual of Photography Elizabeth Allen 2011 The tenth edition of *The Manual of Photography* is an indispensable textbook for anyone who is serious about photography. Covering both the art and the science of the complete photographic process

The Journal of Photographic Science 1995

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.

Archiving 2009 2009

Journal of Applied Photographic Engineering 1983

The Manual of Photography R. E. Jacobson 2000 *The Manual of Photography* is the standard work for anyone who is serious about photography - professional photographers and lab technicians or managers, as well as students and enthusiastic amateurs who want to become more technically competent. The authors provide comprehensive and accessible coverage of the techniques and technologies of photography. The Manual has aided many thousands of photographers in their careers. The ninth edition now brings this text into a

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third century, as the first edition dates from 1890. Major new updates for the ninth edition include: Coverage of digital techniques - more emphasis on electronic and hybrid media Greater coverage of colour measurement, specification and reproduction - illustrated with a new colour plate section Dealing with the fundamental principles as well as the practices of photography and imaging, the Manual topics ranging from optics to camera types and features, to colour photography and digital image processing and manipulation. The authors write in a reader-friendly style, using many explanatory illustrations and dividing topics into clear sections. The authoritative text on virtually every technical aspect of photography and digital imaging If you are serious about photography you can't afford to be without this book New colour plate section illustrates the chapters on colour techniques

The Audio-visual Handbook Alan McPherson 1988 Provides information on creating and using AV materials, discusses equipment and recording techniques, and covers production schedules, storyboards, graphics, sound, editing, and presentation

The Photographic Lens Sidney F. Ray 1992 The purpose of this book is to explain the basic principles of optics and image formation particular to such lenses and optical systems. Much importance is placed on clear and detailed diagrams of contemporary equipment, and graphs of performance characteristics. The book begins with an explanation of visual perception, followed by sections on basic optics and image formation by representative systems; the design, the manufacture and testing of lenses and optical systems; optical attachments, including filters and converters; the optics of a number of different types of camera; the projection of images; the ancillary and auxiliary systems associated with image capture; and related optical and opto-electronic systems including fibre optics, LEDs and LCDs. The book is intended as a compact source of useful data, for anyone concerned with the visual communications industry, from secondary school pupils to professional camera users and equipment specialists. Sidney F Ray is Principle Lecturer in Photographic Sciences and Electronic Imaging at the University of Westminster. His other book for Focal Press, *Applied photographic Optics* has been acclaimed as the definitive work on the subject. he is also the co-author of *The Manual of Photography*. compact source of information fully illustrated simple clear explanations

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.

SMPTE Journal Society of Motion Picture and Television Engineers 1994

Applied Photographic Optics Sidney F. Ray 1988

The British National Bibliography Arthur James Wells 2002

Optical Techniques in Fluid, Thermal and Combustion Flow 1997

The Photographic Journal 1988 Vols. for 1853- include the transactions of the Royal Photographic Society of Great Britain.

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.

Technology and Art Michael Pritchard 1990

Whitaker's Books in Print 1998

High Speed Photography and Photonics Sidney F. Ray 2002 The development of new technologies in the fields of photonics, digital systems and computers has resulted in many exciting innovations in high speed photography (HSP) and its commercial, industrial and military applications. This book forms a definitive work on the subject and was written to fill a hitherto uncovered gap in the available literature on this topic. Compiled by a leading team of international experts and written with the cooperation of the Association for High Speed Photography (AHSP) under the Editorship of Sidney F. Ray, this is the most authoritative work on the subject to date. The book forms an introduction to high speed photography, principally for those who wish to investigate its almost limitless potential as a tool for instrumentation, measurement and analysis in both research and development work. It will also interest those who are mainly concerned with standard photographic and digital imaging procedures but need to know more about high speed recording. As a university textbook it

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is ideally suited to those undertaking postgraduate research, as well as to undergraduates on courses that include film production, biomedical imaging, scientific photography and applied imaging. The material in the book follows progressively from an introduction to and development of HSP, to details of illumination and image capture systems, data extraction and necessary image processing in experimental procedures. Both major and specialist applications of HSP are detailed, including ballistics, the natural world, detonics, the properties of materials and aircraft engineering, combustion processes, motor vehicle safety and holography. A large number of diagrams and photographs illustrate and supplement the text while tables of data provide easy access to numerical information. Will appeal to newcomers as well as professionals in the topic Endorsed by the Association for High Speed Photography Major topics covered in one independent source

Bibliographic Guide to Technology New York Public Library. Research Libraries 1978

Photographic Technology and Image Science Sidney F. Ray 1994

Optical System Design Robert F. Fischer 2000-06-30 This classic resource provides a clear, well-illustrated introduction to the essentials of optical design-from basic principles to cutting-edge design methods.

Electronic Failure Analysis Handbook Perry L. Martin 1999 Offering top-to-bottom coverage of this rapidly developing field; this book encompasses breakthrough techniques and technologies for both components and systems reliability testing; performance evaluation; and liability avoidance. --

Photographic Chemistry and Processing Sidney F. Ray 1994

Bibliographic Index 1994