

Applied Optics and Optical Design



A. E. Conrady

PART ONE

Applied Optics A Guide To Optical Systems Design

Ateneo de Manila University



Applied Optics A Guide To Optical Systems Design:

Applied Optics Leo Levi,1968 *Applied Optics* Leo Levi,1980-03-01 **Applied Optics, A Guide to Optical System Design, Vol. 1-** Leo Levi,1968 Applied Optics Ateneo de Manila University,1968 **Optics. A Guide to Optical System Design** L. Levi,1968 **Applied Optics and Optical Design, Part Two** A. E. Conrady,2014-01-01 For the optical engineer it is an indispensable work Journal Optical Society of America As a practical guide this book has no rival Transactions Optical Society A noteworthy contribution Nature London This two volume paperback republication of A E Conrady s classic work presents his complete system of optical design The only work of its kind in English this set leads the reader step by step from the fundamental concepts of geometrical and physical optics up to the point where he can design the simpler optical systems without aid It remains the only detailed work on the subject written with the needs of the practical designer and the self taught constantly in mind For most of the text no mathematics above trigonometry is needed occasional sections require some calculus and analytical geometry Part I covers all ordinary ray tracing methods together with the complete theory of primary aberrations and as much of higher aberration as is needed for the design of telescopes low power microscopes and simple optical systems Chapters Fundamental Equations Spherical Aberration Physical Aspect of Optical Images Chromatic Aberration Design of Achromatic Object Glasses Extra Axial Image Points The Optical Sine Theorem Trigonometric Tracing of Oblique Pencils General Theory of Perfect Optical Systems and Ordinary Eyepieces Part II extends the coverage to the systematic study and design of practically all types of optical systems with special attention to high power microscope objectives and anastigmatic photographic objectives Edited and completed from the author s manuscript by Rudolf Kingslake Director of Optical Design Eastman Kodak Company Chapters Additional Solutions by the Thin Lens Method Optical Path Differences Optical Path Differences at an Axial Image Point Optical Tolerances Chromatic Aberration as an Optical Path Difference The Matching Principle and the Design of Microscope Objectives Primary Aberrations of Oblique Pencils Analytical Solutions for Simple Systems with Remote Stop Symmetrical Photographic Objectives and Unsymmetrical Photographic Objectives Opto-Mechanical Systems Design, Volume 1 Paul Yoder,Daniel Vukobratovich,2017-12-19 Opto Mechanical Systems Design Fourth Edition is different in many ways from its three earlier editions coauthor Daniel Vukobratovich has brought his broad expertise in materials opto mechanical design analysis of optical instruments large mirrors and structures to bear throughout the book Jan Nijenhuis has contributed a comprehensive new chapter on kinematics and applications of flexures and several other experts in special aspects of opto mechanics have contributed portions of other chapters An expanded feature a total of 110 worked out design examples has been added to several chapters to show how the theory equations and analytical methods can be applied by the reader Finally the extended text new illustrations new tables of data and new references have warranted publication of this work in the form of two separate but closely entwined volumes This first volume Design and Analysis of Opto Mechanical Assemblies addresses topics

pertaining primarily to optics smaller than 50 cm aperture It summarizes the opto mechanical design process considers pertinent environmental influences lists and updates key parameters for materials illustrates numerous ways for mounting individual and multiple lenses shows typical ways to design and mount windows and similar components details designs for many types of prisms and techniques for mounting them suggests designs and mounting techniques for small mirrors explains the benefits of kinematic design and uses of flexures describes how to analyze various types of opto mechanical interfaces demonstrates how the strength of glass can be determined and how to estimate stress generated in optics and explains how changing temperature affects opto mechanical assemblies

Opto-Mechanical Systems Design Paul R. Yoder Jr., 2005-12-09 After nearly two decades Paul Yoder's Opto Mechanical Systems Design continues to be the reference of choice for professionals fusing optical and mechanical components into advanced high performance instruments Yoder's authoritative systems oriented coverage and down to earth approach fosters the deep seated knowledge needed to continually push

Applied Optics and Optical Design Alexander Eugen Conrady, 1992 For the optical engineer it is an indispensable work Journal Optical Society of America As a practical guide this book has no rival Transactions Optical Society A noteworthy contribution Nature London This two volume paperback republication of A E Conrady's classic work presents his complete system of optical design The only work of its kind in English this set leads the reader step by step from the fundamental concepts of geometrical and physical optics up to the point where he can design the simpler optical systems without aid It remains the only detailed work on the subject written with the needs of the practical designer and the self taught constantly in mind For most of the text no mathematics above trigonometry is needed occasional sections require some calculus and analytical geometry Part I covers all ordinary ray tracing methods together with the complete theory of primary aberrations and as much of higher aberration as is needed for the design of telescopes low power microscopes and simple optical systems Chapters Fundamental Equations Spherical Aberration Physical Aspect of Optical Images Chromatic Aberration Design of Achromatic Object Glasses Extra Axial Image Points The Optical Sine Theorem Trigonometric Tracing of Oblique Pencils General Theory of Perfect Optical Systems and Ordinary Eyepieces Part II extends the coverage to the systematic study and design of practically all types of optical systems with special attention to high power microscope objectives and anastigmatic photographic objectives Edited and completed from the author's manuscript by Rudolf Kingslake Director of Optical Design Eastman Kodak Company Chapters Additional Solutions by the Thin Lens Method Optical Path Differences Optical Path Differences at an Axial Image Point Optical Tolerances Chromatic Aberration as an Optical Path Difference The Matching Principle and the Design of Microscope Objectives Primary Aberrations of Oblique Pencils Analytical Solutions for Simple Systems with Remote Stop Symmetrical Photographic Objectives and Unsymmetrical Photographic Objectives

Modern Optical Engineering 4E (PB) Warren J. Smith, 2007-12-25 The Latest Advances in Optical Engineering and Lens Technology Long established as the definitive optics text and reference Modern Optical Engineering

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Opto-Mechanical Systems Design, Two Volume Set Paul Yoder, Daniel Vukobratovich, 2018-12-14 Opto Mechanical Systems Design Fourth Edition is different in many ways from its three earlier editions coauthor Daniel Vukobratovich has brought his broad expertise in materials opto mechanical design analysis of optical instruments large mirrors and structures to bear throughout the book Jan Nijenhuis has contributed a comprehensive new chapter on kinematics and applications of flexures and several other experts in special aspects of opto mechanics have contributed portions of other chapters An expanded feature a total of 110 worked out design examples has been added to several chapters to show how the theory equations and analytical methods can be applied by the reader Finally the extended text new illustrations new tables of data and new references have warranted publication of this work in the form of two separate but closely entwined volumes The first volume Design and Analysis of Opto Mechanical Assemblies addresses topics pertaining primarily to optics smaller than 50 cm aperture It summarizes the opto mechanical design process considers pertinent environmental influences lists and updates key parameters for materials illustrates numerous ways for mounting individual and multiple lenses shows typical ways to design and mount windows and similar components details designs for many types of prisms and techniques for mounting them suggests designs and mounting techniques for small mirrors explains the benefits of kinematic design and uses of flexures describes how to analyze various types of opto mechanical interfaces demonstrates how the strength of glass can be determined and how to estimate stress generated in optics and explains how changing temperature affects opto mechanical assemblies The second volume Design and Analysis of Large Mirrors and Structures concentrates on the design and mounting of significantly larger optics and their structures including a new and important topic detailed consideration of factors affecting large mirror performance The book details how to design and fabricate very large single substrate segmented and lightweight mirrors describes mountings for large mirrors with their optical axes in vertical horizontal and variable orientations indicates how metal and composite mirrors differ from

ones made of glass explains key design aspects of optical instrument structural design and takes a look at an emerging technology the evolution and applications of silicon and silicon carbide in mirrors and other types of components for optical applications Opto-Mechanical Systems Design, Volume 2 Paul Yoder, Daniel Vukobratovich, 2017-12-19 Opto Mechanical Systems Design Fourth Edition is different in many ways from its three earlier editions coauthor Daniel Vukobratovich has brought his broad expertise in materials opto mechanical design analysis of optical instruments large mirrors and structures to bear throughout the book Jan Nijenhuis has contributed a comprehensive new chapter on kinematics and applications of flexures and several other experts in special aspects of opto mechanics have contributed portions of other chapters An expanded feature a total of 110 worked out design examples has been added to several chapters to show how the theory equations and analytical methods can be applied by the reader Finally the extended text new illustrations new tables of data and new references have warranted publication of this work in the form of two separate but closely entwined volumes This second volume Design and Analysis of Large Mirrors and Structures concentrates on the design and mounting of significantly larger optics and their structures including a new and important topic detailed consideration of factors affecting large mirror performance The book details how to design and fabricate very large single substrate segmented and lightweight mirrors describes mountings for large mirrors with their optical axes in vertical horizontal and variable orientations indicates how metal and composite mirrors differ from ones made of glass explains key design aspects of optical instrument structural design and takes a look at an emerging technology the evolution and applications of silicon and silicon carbide in mirrors and other types of components for optical applications Fundamentals of Photonics Bahaa E. A. Saleh, Malvin Carl Teich, 2007-03-09 Fundamentals of Photonics A complete thoroughly updated full color second edition Now in a new full color edition Fundamentals of Photonics Second Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a logical blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of photons and atoms and semiconductor optics Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography guided wave and fiber optics semiconductor sources and detectors electro optic and acousto optic devices nonlinear optical devices optical interconnects and switches and optical fiber communications Each of the twenty two chapters of the first edition has been thoroughly updated The Second Edition also features entirely new chapters on photonic crystal optics including multilayer and periodic media waveguides holey fibers and resonators and ultrafast optics including femtosecond optical pulses ultrafast nonlinear optics and optical solitons The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology Each chapter contains summaries highlighted equations exercises problems and selected reading lists Examples of real systems are included to

emphasize the concepts governing applications of current interest Building Scientific Apparatus John H. Moore, Christopher C. Davis, Michael A. Coplan, 2009-06-25 Unrivalled in its coverage and unique in its hands on approach this guide to the design and construction of scientific apparatus is essential reading for every scientist and student of engineering and physical chemical and biological sciences Covering the physical principles governing the operation of the mechanical optical and electronic parts of an instrument new sections on detectors low temperature measurements high pressure apparatus and updated engineering specifications as well as 400 figures and tables have been added to this edition Data on the properties of materials and components used by manufacturers are included Mechanical optical and electronic construction techniques carried out in the lab as well as those let out to specialized shops are also described Step by step instruction supported by many detailed figures is given for laboratory skills such as soldering electrical components glassblowing brazing and polishing Outlines of Applied Optics Perley Gilman Nutting, 1912 **Applied Optics and Optical Design** Alexander Eugen Conrady, 1929 **Encyclopedia of Imaging Science and Technology, 2 Volume Set** Joseph P. Hornak, 2002 This encyclopedia is the first to offer in depth coverage of imaging science and technology from a diverse range of applications techniques and fields of study Today imaging is used by astronomers to map distant galaxies oceanographers to map the sea floor chemists to map the distribution of atoms on a surface physicians to map the functionality of the brain and electrical engineers to map electromagnetic fields around power lines With this encyclopedia scientists engineers and physicians can understand more about the science and technology behind the imaging techniques they are currently using and learn the latest technologies Diverse coverage offers the ability to learn from applications in archeology aviation astronomy chemistry forensics geography mathematics medicine meteorology microscopy oceanography surveillance and more and how to apply those imaging solutions to many different problems Also available in a user friendly online edition The new electronic version of the Encyclopedia accessible through Wiley InterScience offers enhanced browsing searching and cross referencing capabilities Visit www.interscience.wiley.com/eist **Standard Handbook of Engineering Calculations** Tyler Gregory Hicks, 1995 This invaluable handbook provides engineers and technicians with more than 5 000 direct and related calculations for solving day to day problems quickly and easily The book covers 13 disciplines including civil architectural mechanical electrical electronics and nuclear engineering enabling readers to become familiar with procedures in fields apart from their own **Laser Beam Shaping** Fred M. Dickey, Scott C. Holswade, 2000-07-11 This text provides all the basic information needed to research develop and design beam shaping systems It includes sections on diffraction theory geometrical optics shaping element design beam profile measurement technology with applications and techniques for lossless beam shaping The Physics of Moire Metrology Oded Kafri, Ilana Glatt, 1990 This one volume treatise presents a comprehensive discussion of moire metrology analysis The authors work from a new point of view treating the gratings used in moire analysis as an artificial analog to electromagnetic waves thereby

comparing moire analysis with conventional optical methods based on wave properties such as interferometry It is shown that for every interferometric technique in metrology there is an analogous technique in moire metrology and vice versa and that scientists involved in optical metrology have a real choice between interferometric and moire methods

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