
ISO 10110 Optical Drawing Standards

Introduction to Opto-Mechanical Engineering

OPTI 521

University of Arizona, College of Optical Sciences

Jason Lane

13 December 2009

LAYOUT

ISO 10110

- **What is it?**
 - ISO standard describing preparation of drawings for optical elements and systems
 - Describes features unique to optical components – builds on GD&T standards (compatible with ASME Y14.5M)
 - ISO version of ASME Y14.18M (which will likely be superseded by ISO 10110 or some equivalent).
- **Who uses it?**
 - Almost all of the optical design / manufacturing industry. Both internationally and in the U.S. All of the major optical design packages output ISO 10110 compliant element drawings.

Engineering Drawing Standards Iso 10110

Julia Schneider



Engineering Drawing Standards Iso 10110:

Handbook of Optomechanical Engineering Anees Ahmad, 1996-12-20 Good optical design is not in itself adequate for optimum performance of optical systems The mechanical design of the optics and associated support structures is every bit as important as the optics themselves Optomechanical engineering plays an increasingly important role in the success of new laser systems space telescopes and instruments biomedical and optical communication equipment imaging entertainment systems and more This is the first handbook on the subject of optomechanical engineering a subject that has become very important in the area of optics during the last decade Covering all major aspects of optomechanical engineering from conceptual design to fabrication and integration of complex optical systems this handbook is comprehensive The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design development and integration of modern optical systems for commercial space and military applications Charts tables figures and photos augment this already impressive handbook The text consists of ten chapters each authored by a world renowned expert This unique collaboration makes the Handbook a comprehensive source of cutting edge information and research in the important field of optomechanical engineering Some of the current research trends that are covered include **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 **Fundamentals of Optomechanics** Daniel Vukobratovich, Paul Yoder, 2018-01-29 When Galileo designed the tube of his first telescope optomechanics was born Concerned with the shape and position of surfaces in an optical system

optomechanics is a subfield of physics that is arguably as old as optics. However, while universities offer courses on the subject, there is a scarcity in textbook selections that skillfully and properly convey optomechanical fundamentals to aspiring engineers. Complemented by tutorial examples and exercises, this textbook rectifies this issue by providing instructors and departments with a better choice for transmitting to students the basic principles of optomechanics and allowing them to comfortably gain familiarity with the field's content. Practicing optical engineers who engage in self-study and wish to enhance the extent of their knowledge will also find benefit from the vast experience of the authors. The book begins with a discussion of materials based on optomechanical figures of merit and features chapters on windows, prisms, and lenses. The authors also cover topics related to design parameters, mounting small mirrors, metal mirrors, with a discussion of infrared applications and kinematic design. Overall, *Fundamentals of Optomechanics* outfits students and practitioners with a stellar foundation for exploring the design and support of optical system surfaces under a wide variety of conditions. Provides the fundamentals of optomechanics. Presents self-contained, student-friendly prose written by top scientists in the field. Discusses materials, windows, individual lenses, and multiple lenses. Includes design, mounting, and performance of mirrors. Includes homework problems and a solutions manual for adopting professors.

ISO 10110 Optics and Optical Instruments
Ronald K. Kimmel, Robert Eugene Parks, 2002
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

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 [Meeting on Optical Engineering in Israel](#) ,1994

Optomechanical Design Paul R. Yoder (Jr.),1992 **Catalogue** International Organization for Standardization,2008 **Optical Manufacturing and Testing** ,1999 *Optical Design and Engineering* ,2004

[Handbook of Laser Technology and Applications: Laser design and laser systems](#) Colin E. Webb,Julian D. C. Jones,2004

Handbook of Optics Third Edition, 5 Volume Set Optical Society of America,2010-05-18 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world s most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume I covers geometrical and physical optics polarized light components and instruments Volume II covers design fabrications testing sources detectors radiometry and photometry Volume III all in full color covers vision and vision optics Volume IV covers optical properties of materials nonlinear optics and quantum optics Volume V covers atmospheric optics modulators fiber optics and x ray and neutron optics Visit www.HandbookofOpticsOnline.com to search all five volumes and download a comprehensive index *Optical Engineering* ,2003 [Handbook of Optics, Third Edition Volume II: Design, Fabrication and Testing, Sources and Detectors, Radiometry and Photometry](#) Michael Bass,Casimer DeCusatis,Jay M. Enoch,Vasudevan Lakshminarayanan,Guifang Li,Carolyn MacDonald,Virendra N. Mahajan,Eric Van Stryland,2009-10-06 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class

research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world s most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume II covers design fabrications testing sources detectors radiometry and photometry

Optical Fabrication and Testing Roland Geyl,Jonathan Maxwell,1999 Sixty one papers on topics surrounding optical fabrication and testing

Implementation of ISO 10110 Optics Drawing Standards for the National Ignition Facility ,1999 The National Ignition Facility NIF project elected to implement ISO 10110 standard for the specifications of NIF optics drawings in 1996 More than 7 000 NIF large optics and 20 000 NIF small optics will be manufactured based on ISO 10110 indications ISO 10110 standard meets many of the needs of the NIF optics specifications It allows the optical engineer to quantify and clearly communicate the desired optical specifications While no single drawing standard specifies all the requirements of high energy laser system a combination of ISO 10110 standard with detailed notes make it possible to apply international drawing standards to the NIF laser system This paper will briefly describe LLNL s interpretation and implementation of the ISO 10110 drawing standard present some examples of NIF optics drawings and discuss pros and cons of the indications from the perspective of this application Emphasis will be given to the surface imperfection specifications known as 5 for the NIF optics

Laser-induced Damage in Optical Materials: 1998 Gregory J. Exarhos,1999

Stray Radiation in Optical Systems ,1994

Specification and Measurement of Optical Systems European Optical Society,Society of Photo-optical Instrumentation Engineers,1993

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