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Opto Mechanic Systems Design

Paul R. Yoder, Daniel Vukobratovich

Opto Mechanic Systems Design:

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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

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and materials with lenses and prisms ,2015 *Opto-mechanical Systems Design* Paul R. Yoder,1986 **Optomechanical Systems Design** Mete Bayar,1980 Optomechanical Design Paul R. Yoder (Jr.),1992 **Selected Papers on Optomechanical Design** Donald C. O'Shea,1988 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics **Lens and Optical Systems Design** ,1993 **Optical System Design, Analysis, and Production for Advanced Technology Systems** ,1986
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