



# Opto Mechanic Systems Design

**Paul R. Yoder, Jr.**



## **Opto Mechanic Systems Design:**

**Opto-Mechanical Systems Design, Second Edition**, Paul Yoder, Daniel Vukobratovich, Roger A. Paquin, 1992-10-29  
Rewritten and updated this text provides information on opto mechanical systems design guidelines and their day to day applications in real environments It emphasizes proven techniques for accomplishing design tasks and outlines techniques for mounting various optical elements and groupings [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

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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, Two Volume Set** Paul Yoder, Daniel

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