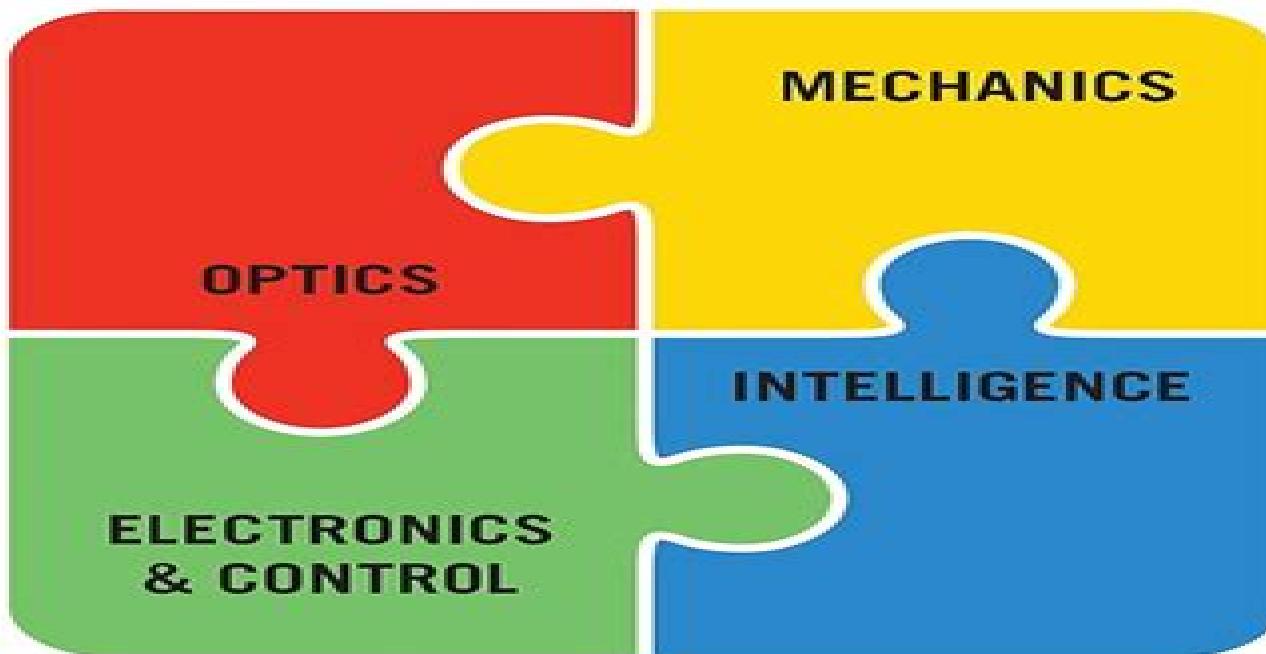


OPTO-MECHATRONIC SYSTEMS HANDBOOK

TECHNIQUES AND APPLICATIONS



Edited by
Hyungsuck Cho

Opto Mechatronic Systems Handbook Techniques And Applications

Hyungsuck Cho

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Opto-Mechatronic Systems Handbook Hyungsuck Cho,2002-09-30 Opto mechatronics the fusion of optical and mechatronic technologies has been integral in the evolution of machines systems and products that are smaller and more precise more intelligent and more autonomous For the technology to reach its full potential however engineers and researchers from many disciplines must learn to work together through every phase of system development To date little effort has been expended either in practice or in the literature to eliminate the boundaries that exist between the optics and mechatronics communities The Opto Mechatronics Systems Handbook is the first step in that direction Richly illustrated and featuring contributions from an international panel of experts it meets three essential objectives Present the definitions fundamentals and applications of the technology Provide a multidisciplinary perspective that shows how optical systems and devices can be integrated with mechatronic systems at all stages from conceptualization to design and manufacturing Demonstrate the roles and synergistic effects of optical systems in overall system performance Along with his fresh approach and systems perspective the editor has taken care to address real cutting edge technologies including precision opto mechatronic systems intelligent robots and opto microsensors Ultimately the Opto Mechatronics Systems Handbook provides readers with the technological foundation for developing further innovative products and systems

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the Books ,1999 **The Mechatronics Handbook - 2 Volume Set** Robert H. Bishop,2002-02-26 Mechatronics has evolved into a way of life in engineering practice and indeed pervades virtually every aspect of the modern world As the synergistic integration of mechanical electrical and computer systems the successful implementation of mechatronic systems requires the integrated expertise of specialists from each of these areas De **Optomechatronics** Hyungsuck Cho,2006-01 Representing an evolutionary leap the integration of optical technologies into mechatronic systems adds a new dimension to an already multifaceted field Optical elements enhance the functionality of mechatronics and in many cases introduce entirely new capabilities Likewise mechatronic elements bring the same synergistic effects to optical systems However most books focus on traditional mechatronics while only briefly discussing or omitting completely the characteristics of optomechatronic technology Bringing together the fundamentals and underlying concepts Optomechatronics provides a detailed introduction to this growing field With emphasis on the importance of interdisciplinary multiple technology fusion this book threads together the background definition and characteristics of the field with an integrated view of various disciplines a system oriented approach and a combined view of the macro micro worlds It begins with an analysis of a variety of practical optomechatronic systems to identify the underlying concepts and features of each area composing the field These systems include optics machine vision feedback control and micro opto mechanical systems MOEMS From this platform the author demonstrates how to fuse the optical mechanical electronic and microprocessor elements to realize desired functionalities Finally the book examines whole optomechatronic systems comprising the components described in the previous section Whether you are new to the field or have experience in a different engineering discipline Optomechatronics supplies the necessary tools to harness the benefits that optical technologies bring to this important emerging area *The Standard Periodical Directory ,1993*

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