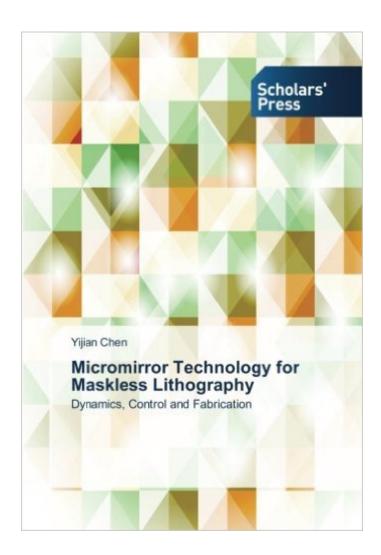
The book was found

Micromirror Technology For Maskless Lithography: Dynamics, Control And Fabrication





Synopsis

This book presents a complete analysis and review of dynamics, control and fabrication of MEMS micromirrors for applications in DUV and EUV maskless lithography. The transient and resonant behavior of various types of electro-mechanically damped micromirrors with various degrees of freedom are discussed. The theoretical approach using the perturbation method and linear control theory is described. Micromirror design and fabrication issues including the material properties, process integration, and device reliability are addressed. Novel processing solutions such as the self-aligned spacer patterning technique to define nano-scale actuation gaps for low-voltage operation are introduced. Fabrication results of highly complicated 3-D MEMS devices such as vertical-comb tilting micromirrors and double-flexure piston micromirrors are demonstrated. This book serves as an excellent in-depth source of MEMS dynamics, control, and fabrication knowledge for both graduate students and experienced researchers.

Book Information

Paperback: 156 pages

Publisher: Scholars' Press (August 21, 2013)

Language: English

ISBN-10: 3639513657

ISBN-13: 978-3639513653

Product Dimensions: 5.9 x 0.4 x 8.7 inches

Shipping Weight: 9.9 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,435,921 in Books (See Top 100 in Books) #22 in Books > Arts &

Photography > Graphic Design > Lithography #5138 in Books > Engineering & Transportation >

Engineering > Electrical & Electronics > Electronics #442257 in Books > Textbooks

Download to continue reading...

Micromirror Technology for Maskless Lithography: Dynamics, Control and Fabrication Spatial Light Modulators and Applications: Spatial Light Modulators for Applications in Coherent Communication, Adaptive Optics and Maskless Lithography Ultraviolet nanoimprint lithography: Fabrication of ordered nanostructures, integrated optics and electronic devices Dynamics AX Performance Optimization Guide: Fixing Troubles with Microsoft Dynamics AX and SQL Server Control Self-Assessment: Reengineering Internal Control (Enterprise Governance, Control, Audit, Security, Risk Management and Business Continuity) Colour printing. A practical Demonstration of Colour

Printing by Letterpress, photo-offset, Lithography and Drawn Lithography with illustrations demonstrating alternative methods of production and including a comprehensive colour chart. Lithography; a complete handbook of modern techniques of lithography Getting Started with CNC: Personal Digital Fabrication with Shapeoko and Other Computer-Controlled Routers (Make) 3D CAD with Autodesk 123D: Designing for 3D Printing, Laser Cutting, and Personal Fabrication Rigging Your Cinema Camera: A practical guide to product, cost, fabrication, assembly, and usage 3D Printing and CNC Fabrication with SketchUp Introduction to Microelectronic Fabrication: Volume 5 of Modular Series on Solid State Devices (2nd Edition) Blockchain: The Comprehensive Guide to Mastering the Hidden Economy: (Blockchain Technology, Fintech, Financial Technology, Smart Contracts, Internet Technology) Aircraft Control and Simulation: Dynamics, Controls Design, and Autonomous Systems The Level System: A Natural Method for Developing Control of Accents and Dynamics Atmospheric and Space Flight Dynamics: Modeling and Simulation with MATLABA A® and SimulinkA A® (Modeling and Simulation in Science, Engineering and Technology) Coral Reef Fishes: Dynamics and Diversity in a Complex Ecosystem (Interface Science and Technology) Yeast Control in Seven Days - How to Rebuild Health and Control Candida Infection Control and Management of Hazardous Materials for the Dental Team, 3e (INFECTION CONTROL & MGT/ HAZARDOUS MAT/ DENTAL TEAM (MILLER)) Show Networks and Control Systems: Formerly "Control Systems for Live Entertainment"

<u>Dmca</u>