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Advanced Mechanics of Materials Robert Davis Cook, Warren Clarence Young, 1985 Treats topics by extending concepts and procedures a step or two beyond elementary mechanics of materials and emphasizes the physical view mathematical complexity is not used where it is not needed Includes new coverage of symmetry considerations rectangular plates in bending plastic action in plates and critical speed of rotating shafts Expands the coverage of fatigue the reciprocal theorem semi inverse problems in elasticity thermal stress and buckling **Proceedings of the ASME Design Engineering**

Division ... ,2003 Handbook of Silicon Based MEMS Materials and Technologies Markku Tilli, Mervi

Paulasto-Kröckel, Teruaki Motooka, Veikko Lindroos, Veli-Matti Airaksinen, Sami Franssila, Ari Lehto, 2009-12-08 A

comprehensive guide to MEMS materials technologies and manufacturing examining the state of the art with a particular emphasis on current and future applications Key topics covered include Silicon as MEMS material Material properties and measurement techniques Analytical methods used in materials characterization Modeling in MEMS Measuring MEMS Micromachining technologies in MEMS Encapsulation of MEMS components Emerging process technologies including ALD and porous silicon Written by 73 world class MEMS contributors from around the globe this volume covers materials selection as well as the most important process steps in bulk micromachining fulfilling the needs of device design engineers and process or development engineers working in manufacturing processes It also provides a comprehensive reference for the industrial R D and academic communities Veikko Lindroos is Professor of Physical Metallurgy and Materials Science at Helsinki University of Technology Finland Markku Tilli is Senior Vice President of Research at Okmetic Vantaa Finland Ari Lehto is Professor of Silicon Technology at Helsinki University of Technology Finland Teruaki Motooka is Professor at the Department of Materials Science and Engineering Kyushu University Japan Provides vital packaging technologies and process knowledge for silicon direct bonding anodic bonding glass frit bonding and related techniques Shows how to protect devices from the environment and decrease package size for dramatic reduction of packaging costs Discusses properties preparation and growth of silicon crystals and wafers Explains the many properties mechanical electrostatic optical etc manufacturing processing measuring incl focused beam techniques and multiscale modeling methods of MEMS structures

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