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Michael Curt; Wiegierink, Remco J. / Mechanical microsensors. Germany : Springer, 2001. 295 p. (Microtechnology and MEMS, ISSN 1615-8326). Mechanical microsensors — University of Twente Research ... MEMS and Nanotechnology Reading List. Here's a list of suggested texts for learning more about MEMS and Nanotechnology. Marc Madou, Fundamentals of Microfabrication, CRC Press 1997, ISBN 0-8493-9451-1 Julian W. Gardner, Microsensors: Principles and Applications, Wiley 1994, ISBN 0-4719-4135-2 Gregory Kovacs, Micromachined Transducers Sourcebook, McGraw-Hill 1998, ISBN 0-0729-0722-3 MEMS and Nanotechnology Reading List Microelectromechanical systems (MEMS), also written as micro-electro-mechanical systems (or microelectronic and microelectromechanical systems) and the related micromechatronics and microsystems is the technology of microscopic devices, particularly those with moving parts. Microelectromechanical systems - Wikipedia The field of microelectromechanical systems (MEMS) and microtechnology has grown so wide and large that it has become logical and reasonable to focus more on selected areas rather than trying to cover the entire field in one textbook. This new book Mechanical Microsensors is an example of such a special focus. Mechanical Microsensors - IOPscience This book on mechanical microsensors is based on a course organized by the Swiss Foundation for Research in Microtechnology (FSRM) in Neuchatel, Switzerland, and developed and taught by the authors. Mechanical microsensors (Book, 2001) [WorldCat.org] Micro-Opto-Electro-Mechanical Systems (MOEMS) are not a special class of Micro-Electro-Mechanical Systems (MEMS) but rather the combination of

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microfabrication.

What is MEMS Technology?

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The mechanical machining of silicon based on IC-technologies is known as micromachining, and the systems made by micromachining are called MEMS (microelectromechanical systems). The present book describes how to use this technology to fabricate sensors of miniature size for mechanical quantities, such as pressure, force, flow and acceleration.

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The possibility to directly integrate microscopic, mechanical functional units with semiconductor electronics at silicon level gave rise to a multitude of different micromechanical sensors and actuators and to the huge success of MEMS and microstructures. The sheer range of product types and areas of use is huge.

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