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Books - Dr. Chang Liu - MEMS Sensors Expert, Chicago USA

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manner. A wealth of examples and problems solidify students' understanding of abstract concepts and provide ample opportunities for practicing critical thinking.

It is a real pleasure to write the Foreword for this book, both because I have known and respected its author for many years and because I expect this book's publication will mark an important milestone in the continuing worldwide development of microsystems. By bringing together all aspects of microsystem design, it can be expected to facilitate the training of not only a new generation of engineers, but perhaps a whole new type of engineer – one capable of addressing the complex range of problems involved in reducing entire systems to the micro- and nano-domains. This book breaks down disciplinary barriers to set the stage for systems we do not even dream of today. Microsystems have a long history, dating back to the earliest days of mic- electronics. While integrated circuits developed in the early 1960s, a number of laboratories worked to use the same technology base to form integrated sensors. The idea was to reduce cost and perhaps put the sensors and circuits together on the same chip. By the late-60s, integrated MOS-photodiode arrays had been developed for visible imaging, and silicon etching was being used to create thin diaphragms that could convert pressure into an electrical signal. By 1970, selective anisotropic etching was being used for diaphragm formation, retaining a thick silicon rim to absorb package-induced stresses. Impurity- and electrochemically-based etch-stops soon emerged, and "bulk micromachining" came into its own.

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Drawing on their experiences in successfully executing hundreds of MEMS development projects, the authors present the first practical guide to navigating the technical and business challenges of MEMS product development, from the initial concept stage all the way to commercialization. The strategies and tactics presented, when practiced diligently, can shorten development timelines, help avoid common pitfalls, and improve the odds of success, especially when resources are limited. MEMS Product Development illuminates what it really takes to develop a novel MEMS product so that innovators, designers, entrepreneurs, product managers, investors, and executives may properly prepare their companies to succeed.

The entire scope of the BioMEMS field-at your fingertipsHelping to educate the new generation of engineers and biologists, Introduction to BioMEMS explains how certain problems in biology and medicine benefit from and often require the miniaturization of devices. The book covers the whole breadth of this dynamic field, including classical microfabr

This book describes the future of microscopically small medical devices and how to locate a

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lab to start conducting your own do-it-yourself microelectromechanical systems (MEMS) research in one of the many national, international, government, and other regional open use facilities, where you can quickly begin designing and fabricating devices for your applications. You will learn specific, tangible information on what MEMS are and how a device is fabricated, including what the main types of equipment are in these facilities. The book provides advice on working in a cleanroom, soft materials, collaboration, intellectual property and privacy issues, regulatory compliance, and how to navigate other issues that may arise. This book is primarily aimed at researchers and students who work at universities without MEMS facilities, and small companies who need access to MEMS resources.

The development of micro- and nano-mechanical systems (MEMS and NEMS) foreshadows momentous changes not only in the technological world, but in virtually every aspect of human life. The future of the field is bright with opportunities, but also riddled with challenges, ranging from further theoretical development through advances in fabrication technologies, to developing high-performance nano- and microscale systems, devices, and structures, including transducers, switches, logic gates, actuators and sensors. MEMS and NEMS: Systems, Devices, and Structures is designed to help you meet those challenges and solve fundamental, experimental, and applied problems. Written from a multi-disciplinary perspective, this book forms the basis for the synthesis, modeling, analysis, simulation, control, prototyping, and fabrication of MEMS and NEMS. The author brings together the various paradigms, methods, and technologies associated with MEMS and NEMS to show how to synthesize, analyze, design, and fabricate them. Focusing on the basics, he illustrates the development of NEMS and MEMS architectures, physical representations, structural synthesis, and optimization. The applications of MEMS and NEMS in areas such as biotechnology, medicine, avionics, transportation, and defense are virtually limitless. This book helps prepare you to take advantage of their inherent opportunities and effectively solve problems related to their configurations, systems integration, and control.

Microsystems and MEMS technology represents one of the biggest breakthroughs in the area of mechanical and electronic technology to occur in recent years. This is the technology of extremely small and powerful devices – and systems built around such devices – which have mechanical and electrical components. MEMS technology is beginning to explode, with major application areas being telecommunications, biomedical technology, manufacturing and robotic systems, transportation and aerospace. Academics are desperate for texts to familiarize future engineers with this broad-ranging technology. Hsu's MEMS & MICROSYSTEMS text provides an engineering design approach to MEMS and microsystems, appropriate for professionals and senior level students. This design approach is conveyed through good examples, cases, and applied problems. The book is appropriate for Mechanical and Aerospace engineers, since it carefully explains the electrical/electronic aspects of the subject. Electrical Engineering students will be provided strong coverage of the mechanical side of MEMS, something they may not receive from other courses in their curriculum.

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