

MEMS and Microsystems: Design, Manufacture, and Nanoscale Engineering

Tai-Ran Hsu



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An engineering design approach to Microelectromechanical Systems, MEMS and Microsystems remains the only available text to cover both the electrical and the mechanical aspects of the technology. In the five years since the publication of the first edition, there have been significant changes in the science and technology of miniaturization, including microsystems technology and nanotechnology. In response to the increasing needs of engineers to acquire basic knowledge and experience in these areas, this popular text has been carefully updated, including an entirely new section on the introduction of nanoscale engineering.

Following a brief introduction to the history and evolution of nanotechnology, the author covers the fundamentals in the engineering design of nanostructures, including fabrication techniques for producing nanoproducts, engineering design principles in molecular dynamics, and fluid flows and heat transmission in nanoscale substances.

Other highlights of the Second Edition include:

Expanded coverage of microfabrication plus assembly and packaging technologies \ast

The introduction of microgyroscopes, miniature microphones, and heat pipes *

Design methodologies for thermally actuated multilayered device components \ast

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