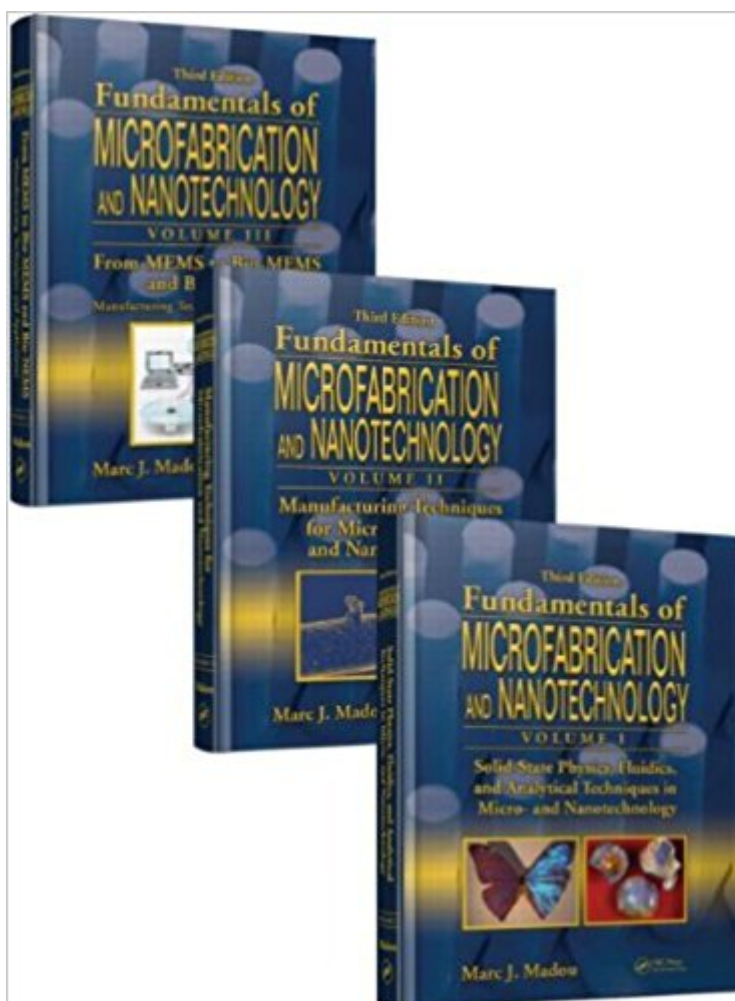


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Fundamentals Of Microfabrication And Nanotechnology, Third Edition, Three-Volume Set



Synopsis

Now in its third edition, *Fundamentals of Microfabrication and Nanotechnology* continues to provide the most complete MEMS coverage available. Thoroughly revised and updated the new edition of this perennial bestseller has been expanded to three volumes, reflecting the substantial growth of this field. It includes a wealth of theoretical and practical information on nanotechnology and NEMS and offers background and comprehensive information on materials, processes, and manufacturing options. The first volume offers a rigorous theoretical treatment of micro- and nanosciences, and includes sections on solid-state physics, quantum mechanics, crystallography, and fluidics. The second volume presents a very large set of manufacturing techniques for micro- and nanofabrication and covers different forms of lithography, material removal processes, and additive technologies. The third volume focuses on manufacturing techniques and applications of Bio-MEMS and Bio-NEMS. Illustrated in color throughout, this seminal work is a cogent instructional text, providing classroom and self-learners with worked-out examples and end-of-chapter problems. The author characterizes and defines major research areas and illustrates them with examples pulled from the most recent literature and from his own work.

Book Information

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Customer Reviews

"[This is the alpha and omega textbook of micro and nanofabrication and technology.](#) [Madou's](#) explanations often provide new perspectives to those who are more experienced. [This feat of compressing a half century of science and engineering into one set of books](#)

makes them useful for years to come. The volumes can easily and aptly serve as course resources for students or as reference books for professionals. Summing Up:

Recommended."ÃÂÂ CHOICE Magazine "ÃÂÂ offers the widest and yet the most detailed coverage of all essential and fundamental aspects of microfabrication and nanotechnology. The author has done an excellent and remarkable job in synthesizing such diverse material under a single umbrella."ÃÂÂ Suman Chakraborty, IIT Kharagpur, India "Once again, Professor Madou has made an incredible contribution to the MEMS/NEMS global community in writing this series of books."ÃÂÂ Nico de Rooij, Director, Institute of Microengineering, EPFL, Switzerland "ÃÂÂ [the new three-volume format] has the potential to become a 'classic' just like the one-volume predecessor."ÃÂÂ easy to read, and I found some concepts explained in ways I hadn't heard before."ÃÂÂ Very ambitious, very informative, very good for teaching!"ÃÂÂ Jorg P. Kutter, Technical University of Denmark

University of California, Irvine, USA

This book is the single best resource anyone can have for microfabrication. It's incredibly thorough in the content that it covers and goes into great detail on not only what processes exist for MEMS fabrication but also HOW it's done, WHY it happens (the physics behind it), and even a history behind the processes. Even as thorough as it is, this book is still pretty easy to follow and requires little background knowledge on the subject. Definitely a must-have for anyone that will be working with MEMS or nanotechnology, even if as nothing more than a reference book.

I got it like it was described and pretty soon, good deal!

Very good book.

The content is ok but I totally cannot understand why the publisher chose glassy paper. It's like a mirror or iPad. My eyes feel very uncomfortable when reading it for even one minute!!

Pretty good distribution of the topics in the three volumes. Useful information about MEMS, NEMS and biomedical applications. Pretty good paper quality of the book.

good!! very useful to me!!!! I want to recommend this product to my friends. the color is very great

apparently.

It covers a lot of material and has some good pictures, but definitions and equations are a little terse or confusing. The book is also heavy...

I previously used this product last summer and have bought it again for this summer. It has helped my feet a lot maintain a fresh and young look and helped me eliminate the hard, dry skin that I have been trying working on removing for the last 20 years as I work as a pub manager. I highly recommend this product.

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