

# Polymers for Microelectronics

Science and Technology

Edited by

Y. Tabata, I. Mita, S. Nonogaki,  
K. Horie, S. Tagawa

In this book, an international team of authors from both industrial and academic research consider recent progress in polymers for microelectronics. The book offers detailed coverage of:

- fundamental and applied research on resists and related compounds
- polyimides and other functional polymers for microelectronics and
- new photoresponsive polymers for optical memory and related applications.

Chemists and physicists active in this field will find an exhaustive and highly current state-of-the-art report on one of the key elements of advanced technologies.



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# 1995 Proceedings Of International Symposium On Microelectronics

**M Tight**



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Semiconductor Metrology Program (U.S.),1999 **National Semiconductor Metrology Program, Semiconductor  
Electronics Division, NIST List Of Publications, LP 103, March 1999** ,1999 **Proceedings of the Seventh  
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IEEE Publications* Institute of Electrical and Electronics Engineers,1996 **Index of Conference Proceedings** British  
Library. Document Supply Centre,2002 Compact Models and Performance Investigations for Subthreshold Interconnects  
Rohit Dhiman,Rajeevan Chandel,2014-11-07 The book provides a detailed analysis of issues related to sub threshold  
interconnect performance from the perspective of analytical approach and design techniques Particular emphasis is laid on  
the performance analysis of coupling noise and variability issues in sub threshold domain to develop efficient compact models  
The proposed analytical approach gives physical insight of the parameters affecting the transient behavior of coupled  
interconnects Remedial design techniques are also suggested to mitigate the effect of coupling noise The effects of wire  
width spacing between the wires wire length are thoroughly investigated In addition the effect of parameters like driver  
strength on peak coupling noise has also been analyzed Process voltage and temperature variations are prominent factors  
affecting sub threshold design and have also been investigated The process variability analysis has been carried out using  
parametric analysis process corner analysis and Monte Carlo technique The book also provides a qualitative summary of the  
work reported in the literature by various researchers in the design of digital sub threshold circuits This book should be of  
interest for researchers and graduate students with deeper insights into sub threshold interconnect models in particular In  
this sense this book will best fit as a text book and or a reference book for students who are initiated in the area of research  
and advanced courses in nanotechnology interconnect design and modeling **Direct-Write Technologies for Rapid  
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MEMS Mohamed Gad-el-Hak, 2005-11-29 As our knowledge of microelectromechanical systems MEMS continues to grow so does The MEMS Handbook The field has changed so much that this Second Edition is now available in three volumes Individually each volume provides focused authoritative treatment of specific areas of interest Together they comprise the most comprehensive collection

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