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Modern MOS Technology:

Processes, Devices, and Design

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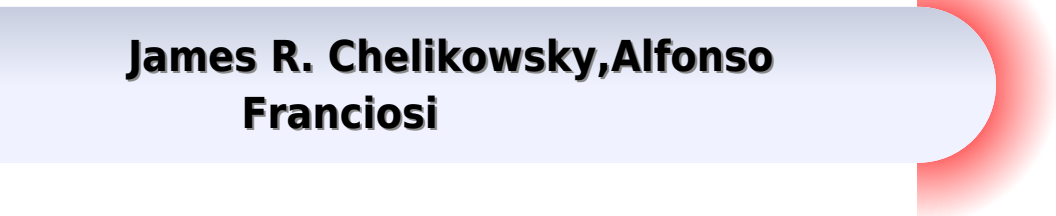


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Technical and Electronic Engineering Series

Modern Mos Technology Processes Devices And Design

**James R. Chelikowsky, Alfonso
Franciosi**



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for Industrial Process Control David .C. Drain,1997-02-01 To practice engineering effectively engineers must need to have a working knowledge of statistical concepts and methods What they do not need is a background heavy on statistical theory and number crunching Statistical Methods for Industrial Process Control provides the practical statistics foundation engineers can immediately apply to the work they do every day regardless of their industry or specialty The author illustrates statistical concepts and methods with authentic semiconductor manufacturing process examples integrated circuit fabrication is an exceedingly rich medium for communicating statistical concepts However once learned these concepts and methods can easily be extended and applied to a variety of other industries The text emphasizes the application of statistical tools rather than statistical theory Modern advances in statistical software have made tedious computations and formula memorization unnecessary Therefore the author demonstrates software use throughout the book and supplies MINITAB examples and SAS programs Review problems at the end of each chapter challenge and deepen readers understanding of the material Statistical Methods for Industrial Process Control addresses topics that support the work engineers do rather than educate them as statisticians and these topics also reflect modern usage It effectively introduces novice engineers to a fascinating industry and enables experienced engineers to build upon their existing knowledge and learn new skills

Electronic Materials James R. Chelikowsky,Alfonso Franciosi,2012-12-06 Modern materials science is exploiting novel tools of solid state physics and chemistry to obtain an unprecedented understanding of the structure of matter at the atomic level The direct outcome of this understanding is the ability to design and fabricate new materials whose properties are tailored to a given device application Although applications of materials science can range from low weight high strength composites for the automobile and aviation industry to biocompatible polymers in no other field has progress been more strikingly rapid than in that of electronic materials In this area it is now possible to predict from first principles the properties of hypothetical materials and to construct artificially structured materials with layer by layer control of composition and microstructure The resulting superlattices multiple quantum wells and high temperature superconductors among others will dominate our technological future A large fraction of the current undergraduate and graduate students in science and engineering will be directly involved in furthering the revolution in electronic materials With this book we want to welcome such students to electronic materials research and provide them with an introduction to this exciting and rapidly developing area of study A second purpose of this volume is to provide experts in other fields of solid state physics and chemistry with an overview of contemporary research within the field of electronic materials

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