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As mentioned in the introduction, one solution to improve the low radiation efficiency of silicon integrated antennas is the use of micromachining techniques to selectively etch the silicon at the back side of the antenna substrate. The best option would be to remove all the silicon under the antenna, however the etching of large areas.

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radiofrequency/electronics/sensor specialists who, for design purposes, would like to forego numerical nonlinear mechanical simulations. The closed-form solution approach will also appeal to device designers interested in performing large-scale parametric analysis.

The Science and Engineering of Microelectronic Fabrication provides an introduction to microelectronic processing. Geared towards a wide audience, it may be used as a textbook for both first year graduate and upper level undergraduate

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Manual and as a handy reference for professionals. The text covers all the basic unit processes used to fabricate integrated circuits including photolithography, plasma and reactive ion etching, ion implantation, diffusion, oxidation, evaporation, vapor phase epitaxial growth, sputtering and chemical vapor deposition. Advanced processing topics such as rapid thermal processing, nonoptical lithography, molecular beam epitaxy, and metal organic chemical vapor deposition are also presented. The physics and chemistry of each process is introduced along with descriptions of the

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equipment used for the manufacturing of integrated circuits. The text also discusses the integration of these processes into common technologies such as CMOS, double poly bipolar, and GaAs MESFETs.

Complexity/performance tradeoffs are evaluated along with a description of the current state-of-the-art devices. Each chapter includes sample problems with solutions. The book also makes use of the process simulation package SUPREM to demonstrate impurity profiles of practical interest.

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Focussing on micro- and nanoelectronics design and technology, this book provides thorough analysis and demonstration, starting from semiconductor devices to VLSI fabrication, designing (analog and digital), on-chip interconnect modeling culminating with emerging non-silicon/ nano devices. It gives detailed description of both theoretical as well as industry standard HSPICE, Verilog, Cadence simulation based real-time modeling approach with focus on fabrication of bulk and nano-devices. Each

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Manual Chapter of this proposed title starts with a brief introduction of the presented topic and ends with a summary indicating the futuristic aspect including practice questions. Aimed at researchers and senior undergraduate/graduate students in electrical and electronics engineering, microelectronics, nanoelectronics and nanotechnology, this book: Provides broad and comprehensive coverage from Microelectronics to Nanoelectronics including design in analog and digital electronics. Includes HDL, and VLSI design going into the nanoelectronics arena. Discusses devices, circuit analysis,

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Manual design methodology, and real-time simulation based on industry standard HSPICE tool. Explores emerging devices such as FinFETs, Tunnel FETs (TFETs) and CNTFETs including their circuit co-designing. Covers real time illustration using industry standard Verilog, Cadence and Synopsys simulations.

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- End-of-chapter

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The facets of IC fabrication technology is important for the students of VLSI for the better understanding of the implementation of VLSI Design. The book, *Fundamentals of IC Fabrication Technology*, is aimed at the novice reader, to develop a practical appreciation of the subject area, especially the processes to fabrication. In keeping with this ideology, the book has been written in a highly illustrative manner and a number of examples have been provided which reflect practical problems faced during the processes

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Manual of fabrication.?

Microfabrication is the key technology behind integrated circuits, microsensors, photonic crystals, ink jet printers, solar cells and flat panel displays. Microsystems can be complex, but the basic microstructures and processes of microfabrication are fairly simple. Introduction to Microfabrication shows how the common microfabrication concepts can be applied over and over again to create devices with a wide variety of structures and functions. Featuring: * A comprehensive presentation of basic

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