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Designed for advanced undergraduate or first-year graduate courses in semiconductor or microelectronic fabrication, Fabrication Engineering at the Micro- and Nanoscale, Fourth Edition, covers the entire basic unit processes used to fabricate integrated circuits and other devices. With many worked examples and detailed illustrations, this engaging introduction provides the tools needed to understand the frontiers of fabrication processes. NEW TO THIS EDITION Coverage of many new topics including: - the flash and spike annealing processes - extreme ultraviolet (EUV) lithography - GaN epitaxial growth and doping - double exposure routes to sub-35-nm lithography - architectures for nanoscale CMOS as practiced at the 45-nm node - trigate or FINFET CMOS planned for 22 nm and below - bulk silicon and thin film solar cell manufacturing - GaN LED fabrication - microfluidics Updated sections on nonoptical lithography Expanded content on state-of-the-art CMOS A Companion Website with PowerPoint slides of figures from the text (www.oup.com/us/campbell) An Instructor's Solutions Manual, available to registered adopters of the text (978-0-19-986121-7)

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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 courses 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 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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These lecture notes provide a detailed treatment of the thermal energy storage and transport by conduction in natural and fabricated structures. Thermal energy in two carriers, i.e. phonons and electrons - are explored from first principles. For solid-state transport, a common Landauer framework is used for heat flow. Issues including the quantum of thermal conductance, ballistic interface resistance, and carrier scattering are elucidated. Bulk material properties, such as thermal and electrical conductivity, are derived from particle transport theories, and the effects of spatial confinement on these properties are established.

This introductory book assumes minimal knowledge of the existence of integrated circuits and of the terminal behavior of electronic components such as resistors, diodes, and MOS and bipolar transistors. It presents to readers the basic information necessary for more advanced processing and design books. Focuses mainly on the basic processes used in fabrication, including lithography, oxidation, diffusion, ion implementation, and thin film deposition. Covers interconnection technology, packaging, and yield. Appropriate for readers interested in the area of fabrication of solid state devices and integrated circuits.

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 fabrication processes * An emphasis on materials and microstructures, rather than device physics * In-depth discussion on process integration showing how processes, materials and devices interact * A wealth of examples of both conceptual and real devices Introduction to Microfabrication includes 250 homework problems for students to familiarise themselves with micro-scale materials, dimensions, measurements, costs and scaling trends. Both

research and manufacturing topics are covered, with an emphasis on silicon, which is the workhorse of microfabrication. This book will serve as an excellent first text for electrical engineers, chemists, physicists and materials scientists who wish to learn about microstructures and microfabrication techniques, whether in MEMS, microelectronics or emerging applications.

Metallurgy of Fracture: The Mechanics of Metal Failure looks at the origin of metal defects, their related mechanisms of failure, and the modification of casting procedures to eliminate these defects, clearly connecting the strength and durability of metals with their fabrication process. The book starts with a focus on the fracture of liquids, looking at topics such as homogeneous and heterogeneous nucleation, entrainment processes in bifilms and bubbles, furling and unfurling, ingot casting, continuous casting, and more. From there it discusses fracture of liquid and solid state, focusing on topics such as externally and internally initiated tearing. The book then concludes with a section discussing fracture of solid metals covering concepts such as ductility and brittleness, dislocation mechanisms, the relationship between the microstructure and properties of metals, corrosion, hydrogen embrittlement, and more. Improved approaches to fabrication and casting processes that will help eliminate these defects are provided throughout. Looks at how the fracture of metals originates in the liquid-state due to poor casting practices Offers improved casting techniques to reduce liquid-state borne fracture Draws attention to the parallels between fracture initiation in the liquid and solid states Covers spall tests and how to improve material quality by hot isostatic pressing

Toughening Mechanisms in Composite Materials aims to provide a comprehensive and technically detailed coverage of composites and their toughening mechanisms. Unique in its direct and comprehensive approach, the book presents fundamental knowledge on composites' toughening mechanisms as well as a comprehensive treatment of numerical methods. This volume summarizes the current state-of-the-art and presents the most recent research outcomes in the field. It details the development of each of the techniques, beginning with basic principles, and new concepts are illustrated with examples wherever possible. Covers particle-reinforced composites, fibre-reinforced composites and other toughening mechanisms Analyses toughening mechanisms in a broad range of composite materials Developments in nanotube toughened composites and toughened graphene ceramic composites are examined

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