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## Fundamentals of microelectronics processing pdf

Lecture hours: 3 Credits: 3 counts: CMPE Special content Optional EE Optional Generally Recommended: Fall - odd year Requirements: ECE 30500 Catalog Description: Detailed examination of the basic principles of the unit processes used in the manufacture of solid state devices and integrated circuits. The focus is on the basic aspects of film deposition, wet emanation, anisotropic dry emanation, crystal growth, ion planting and chemical steam landing of metals and insulators. Required text(s): Silicon VLSI Technology, Fundamentals, Practice and Modeling, J.D. Plummer, M.D. Deal, and P.B. Griffin, Prentice-Hall, 2000, ISBN No. 0-13-085037-3. Recommended text(s): Science and Engineering Microelectronics Manufacturing, 2nd Edition, S.A. Campbell, Oxford Press, 2001, ISBN No. 0-19-513605-5. Learning outcomes: A student who successfully meets the requirements of the course has demonstrated a basic knowledge of the processes of the production unit for diffusion of crystal contamination and rapid heat processing. [a, j, k] understanding thermal oxidation and computer simulation using suprem-4. [a, j, k] understanding ion planting and calculations, including the design of more than one impurities using SUPREM-4. [a, c, e, j] understanding wet and dry e milling of materials. [a, c, e, j, k] understanding the chemical vapour decoder of materials and simulation with ThermoEMP software. [a, c, e, j, k] is a fundamental understanding of metal deposition techniques. [a, c, e, j, k] is a conceptual knowledge of the basics of photolithography. [a, b, c, e, j, k] Lecture outline: Seven main themes 1 Introduction to microelectronic manufacturing 1 semiconductor substrates 1 Diffusion of Silicon 1 Thermal Oxidation of one crystalline silicon 1 ion implantation 1 rapid thermal processing 2 Silicon epitaxial film growth 2 chemical vapor deposition 1 Refractory metals and silica VLSI 2 wet and dry mēleg 1 Spneating and evaporation 1 tests Engineering Design Content: Creating Objectives and Criteria Synthesis Analysis Engineering Design Consideration (s): Health/Safety Craftability Academia.edu uses cookies to personalize content, personalize ads, and improve the user experience. By using our site, you agree to our collection of information by using cookies. For more information, see our privacy policy.× More shopping options

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