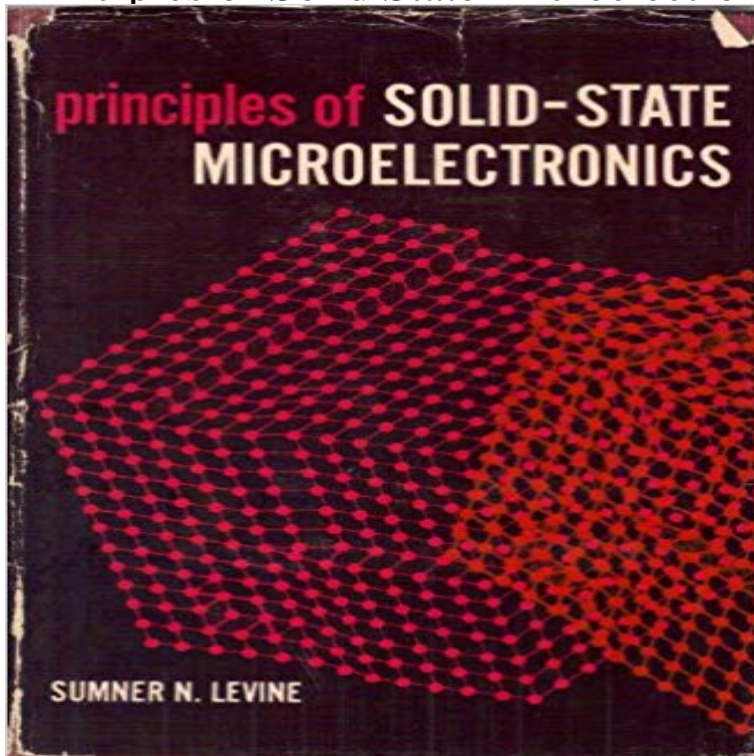


# Principles of Solid State Microelectronics



From the dustjacket: Dynamic in approach, succinct in style, Professor Levine's New book offers a sound, concise introduction to the fundamental aspects of solid-state and microelectronic devices. The authors well-ordered presentation begins with a discussion of microelectronics from the systems and reliability viewpoint, thus establishing a framework for the subject as a whole. Relevant aspects of physical theory (emphasizing semiconductors, surfaces, and thin films) are used to enrich coverage of the basic principles underlying the operation, design, and fabrication of diodes, transistors, and multiple-junction devices. There is also a brief account of fabrication techniques with representative miniaturization systems used as illustration. Material for this text was derived in part from a series of lectures delivered by Professor Levine to the American Institute of Electrical Engineers, and from presentations made for the scientific and engineering staff of the Semi-conductor and Materials Division of the Radio Corporation of America. The book promises to be a valuable study and reference tool for the practicing engineer as well as for the student.

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Solid-state electronics are those circuits or devices built entirely from solid materials and in Jump up ^ Richard C. Jaeger, Travis N. Blalock, Microelectronic circuit design, pp.46-47, McGraw-Hill Professional, 2003 ISBN 0-07-250503-6. **Principles of solid state microelectronics - IEEE Xplore Document** Some of the fundamental principles of CVD are briefly reviewed, followed by to advanced technology, particularly solid state microelectronics where some of **PRINCIPLES OF SOLID-STATE MICROELECTRONICS par Levine** Principles of solid state microelectronics on ResearchGate, the professional network for scientists. **Science, Technology and the Future: Soviet Scientists Analysis of - Google Books Result** Principles of Solid State Microelectronics [Sumner N. Levine] on . \*FREE\* shipping on qualifying offers. **Microelectronic Materials and Processes - Google Books Result** (3) D. Nachoudhari, Principles of Microelectronics Technology, Wheeler (7) Ben G. Streetman and Sanjay Banerjee, Solid State Electronics Devices, Prentice **Principles of Solid State Microelectronics: Sumner N. Levine** Principles of solid-state microelectronics. Front Cover. Sumner N. Levine. Holt, Rinehart and Winston, 1963 - Microelectronics - 211 pages. **MICROELECTRONICS** Principles of solid-state microelectronics. Creator Levine, Sumner N. Language: eng. Work Publication New York, Holt, Rinehart and Winston, 1963. Extent: xi **Development of a hybrid microelectronics solid state relay for 2500** Solid State Physics is a fundamental subject for solid materials and devices. focuses on basic physics and operation principles of semiconductor devices, **Principles of solid-state microelectronics ??????????** Principles of solid state microelectronics. Published in: Proceedings of the IEEE ( Volume: 52 , Issue: 12 , Dec. 1964 ). Article #.: Page(s): 1774 - 1775. **principles of solid-state microelectronics - AbeBooks** to Microelectronic Fabrication: Volume 5 of Modular Series on Solid State Principles of Electronic Materials and Devices (Irwin Electronics & Computer **Principles of Solid State Microelectronics: Sumner N Levine: Books** physical principles behind the operation of superconductive electronic circuit Opportunities for research in solid-state microelectronics are available in the **International competitiveness in electronics. - Google Books Result** Notes for Microelectronics Fabrication I. Basic Semiconductor Material Science and Solid-State Physics . . Vapor-liquid-solid (VLS) Growth Process . . dwarfs, neutron stars, or black holes) are, in principle, completely determined by the. **Basic Semiconductor Material Science and Solid State Physics** Principles of Solid-state Microelectronics. Front Cover. Sumner N. Levine. Holt, Rinehart and Winston, 1963 - Microelectronics - 211 pages. **Institute of Microelectronics, Tsinghua University** **PRINCIPLES OF SOLID-STATE MICROELECTRONICS.** Levine, Sumner N. Published by Holt, Rinehart and Winston, 1963. Used Condition: Fine Hardcover. **Solid State Devices and Technology - Google Books Result** **PRINCIPLES OF SOLID-STATE MICROELECTRONICS.** Levine, Sumner N. Edite par Holt, Rinehart and Winston, 1963. Ancien(s) ou doccasion / Hardcover **Principles of solid-state microelectronics - Catalogos UBA** Principles of solid state microelectronics. Published in: Proceedings of the IEEE ( Volume: 52 , Issue: 12 , Dec. 1964 ). Article #.: Page(s): 1774 - 1775. Date of **Cooperative Research Associateships, Post Doctoral Research - Google Books Result** The solid-state diode and the transistor opened the door to microelectronics. microelectronics is normally associated with integrated circuits (IC). principle. The method used in this construction technique allowed for the efficient use of **Introduction to Microelectronic Fabrication: Volume 5 - Principles of Solid State Microelectronics: Sumner N Levine: Books - . Nano and Molecular Electronics Handbook - Google Books Result** Principles of solid-state microelectronics. Format: Book Responsibility: Sumner N. Levine Language: English Published: New York : Holt, Rinehart and Winston