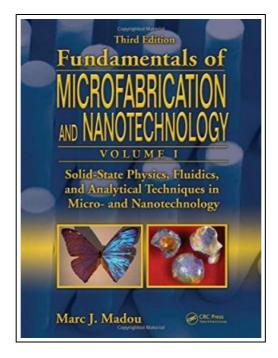
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Reviews

Thorough guide! Its such a very good go through. It is really simplified but surprises in the 50 % from the ebook. You will like how the blogger write this ebook.

(Mr. Brandt Kihn)

SOLID-STATE PHYSICS, FLUIDICS, AND ANALYTICAL TECHNIQUES IN MICRO- AND NANOTECHNOLOGY (HARDBACK)



Taylor Francis Inc, United States, 2011. Hardback. Condition: New. 3rd ed.. Language: English. Brand New Book. Providing a clear theoretical understanding of MEMS and NEMS, Solid-State Physics, Fluidics, and Analytical Techniques in Micro- and Nanotechnology focuses on nanotechnology and the science behind it, including solid-state physics. It provides a clear understanding of the electronic, mechanical, and optical properties of solids relied on in integrated circuits (ICs), MEMS, and NEMS. After exploring the rise of Si, MEMS, and NEMS in a historical context, the text discusses crystallography, quantum mechanics, the band theory of solids, and the silicon single crystal. It concludes with coverage of photonics, the quantum hall effect, and superconductivity. Fully illustrated in color, the text offers end-of-chapter problems, worked examples, extensive references, and a comprehensive glossary of terms.ã Topics include: Crystallography and the crystalline materials used in many semiconductor devicesQuantum mechanics, the band theory of solids, and the relevance of quantum mechanics in the context of ICs and NEMSSingle crystal Si properties that conspire to make Si so importantOptical properties of bulk 3D metals, insulators, and semiconductorsEffects of electron and photon confinement in lower dimensional structuresHow evanescent fields on metal surfaces enable the guiding of light below the diffraction limit in plasmonicsMetamaterials and how they could make for perfect lenses, changing the photonic field foreverFluidic propulsion mechanisms and the influence of miniaturization on fluid behaviorElectromechanical and optical analytical processes in miniaturized components and systemsã The first volume in Fundamentals of Microfabrication and Nanotechnology, Third Edition, Three-Volume Set, the book presents the electronic, mechanical, and optical properties of solids that are used in integrated circuits, MEMS, and NEMS and covers quantum mechanics, electrochemistry, fluidics, and photonics. It lays the foundat



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