

Advances in  
**ELECTRONICS and ELECTRON PHYSICS**

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**Volume 87**

# Advances In Electronics And Electron Physics Volume 38

**Gabor A. Somorjai, Yimin Li**



### **Advances In Electronics And Electron Physics Volume 38:**

Advances in electronics and electron physics ,1975 *Holography and Coherent Optics* L. M. Soroko,2012-12-06 Now that holography has matured with Dennis Gabor having received the Nobel Prize In 1971 and that coherent optics has proved to be even more powerful than originally imagined in opening the new field of optical computing it is particularly appropriate to make available to English speaking readers the translation of a uniquely outstanding text which presents the general and permanent foundations of the field L M Soroko's book has proved its usefulness since it appeared in Russian In 1971 following the basic pattern set in the world's first monograph In the field An Introduction to Coherent Optics and Holography written by G w Stroke in 1966 and since also available in its second US edition 1969 from Academic Press following the publication of its Russian edition by Mir In 1967 To further enhance the usefulness of L M Soroko's book and to assure that its fundamental nature be completely updated the Translation Editor In agreement with the author felt that this could best be assured by including an updating appendix In the form of three recent papers In the general field of optical holographic image processing and 3 D reconstructions especially also since their bibliographies include numerous further references to a great many authors and workers throughout the world Advances in Electronics and Electron Physics ,1992-11-11

Advances in Electronics and Electron Physics Radiation Effects in Semiconductors Krzysztof Iniewski,2018-09-03 Space applications nuclear physics military operations medical imaging and especially electronics modern silicon processing are obvious fields in which radiation damage can have serious consequences i e degradation of MOS devices and circuits Zeroing in on vital aspects of this broad and complex topic Radiation Effects in Semiconductors addresses the ever growing need for a clear understanding of radiation effects on semiconductor devices and circuits to combat potential damage it can cause Features a chapter authored by renowned radiation authority Lawrence T Clark on Radiation Hardened by Design SRAM Strategies for TID and SEE Mitigation This book analyzes the radiation problem focusing on the most important aspects required for comprehending the degrading effects observed in semiconductor devices circuits and systems when they are irradiated It explores how radiation interacts with solid materials providing a detailed analysis of three ways this occurs Photoelectric effect Compton effect and creation of electron positron pairs The author explains that the probability of these three effects occurring depends on the energy of the incident photon and the atomic number of the target The book also discusses the effects that photons can have on matter in terms of ionization effects and nuclear displacement Written for post graduate researchers semiconductor engineers and nuclear and space engineers with some electronics background this carefully constructed reference explains how ionizing radiation is creating damage in semiconducting devices and circuits and systems and how that damage can be avoided in areas such as military space missions nuclear applications plasma damage and X ray based techniques It features top notch international experts in industry and academia who address emerging detector technologies circuit design techniques new materials and innovative system approaches **HEMTs and**

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chapter on soft surfaces polymers and biointerfaces Introduction to Surface Chemistry and Catalysis serves as a textbook for undergraduate and graduate students taking advanced courses in physics chemistry engineering and materials science as well as researchers in surface science catalysis science and their applications **Subject Guide to Books in Print** ,1996

*ESN Information Bulletin* ,1989 **New Technical Books** New York Public Library,1976 *European Scientific Notes* ,1989

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