

# **MONTE CARLO MODELING FOR ELECTRON MICROSCOPY AND MICROANALYSIS**

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# Monte Carlo Modeling For Electron Microscopy And Microanalysis

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## **Monte Carlo Modeling For Electron Microscopy And Microanalysis:**

*Monte Carlo Modeling for Electron Microscopy and Microanalysis* David C. Joy, 1995 This book describes for the first time how Monte Carlo modeling methods can be applied to electron microscopy and microanalysis Computer programs for two basic types of Monte Carlo simulation are developed from physical models of the electron scattering process a single scattering program capable of high accuracy but requiring long computation times and a plural scattering program which is less accurate but much more rapid Optimized for use on personal computers the programs provide a real time graphical display of the interaction The programs are then used as the starting point for the development of programs aimed at studying particular effects in the electron microscope including backscattering secondary electron production EBIC and cathodo luminescence imaging and X ray microanalysis The computer code is given in a fully annotated format so that it may be readily modified for specific problems Throughout the author includes numerous examples of how such applications can be used Students and professionals using electron microscopes will want to read this important addition to the literature

**Monte Carlo Modeling for Electron Microscopy and Microanalysis** David C. Joy, 2023 Use of Monte Carlo Calculations in Electron Probe Microanalysis and Scanning Electron Microscopy Kurt F. J. Heinrich, Dale E. Newbury, Harvey Yakowitz, 1977 **NBS Special Publication**, 1978 *Catalog of National Bureau of Standards Publications, 1966-1976* United States. National Bureau of Standards, 1978 **Catalog of National Bureau of Standards Publications, 1966-1976: Key word index** United States. National Bureau of Standards. Technical Information and Publications Division, 1978 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards, 1978 **Catalog of National Bureau of Standards Publications, 1966-1976** United States. National Bureau of Standards. Technical Information and Publications Division, 1978 **Publications** United States. National Bureau of Standards, 1978 **Electron Microscopy and Analysis 1993, Proceedings of the Institute of Physics Electron Microscopy and Analysis Group Conference, University of Liverpool, 14-17 September 1993** A. J. Craven, 1994 These proceedings cover developments in imaging diffraction and spectroscopy in the electron microscope together complementary and competing techniques such as scanning optical and scanning stylus microscopies A valuable reference source for researchers involved in the use of electron microscopy in physics materials science and chemistry **Electron Microscopy and Analysis**, 1993 Journal of Computer-assisted Microscopy, 1990 *The Journal of Materials Education*, 2003 Advanced Metallization Conference in ..., 2007 **Computational Modeling of Carbon Nanotubes** Bin Shan, 2006 *Scanning Electron Microscopy*, 1984 Vols for 1968 77 include the proceedings of the annual Scanning Electron Microscope Symposium sponsored by the IIT Research Institute and other workshops *Application of Parallel Computing to the Monte Carlo Simulation of Electron Scattering in Solids*, 1990 X ray microanalysis by analytical electron microscopy AEM has proven to be a powerful tool for characterizing the spatial distribution of solute elements in materials True

compositional variations over spatial scales smaller than the actual resolution for microanalysis can be determined if the measured composition profile is deconvoluted. Explicit deconvolutions of such data via conventional techniques such as Fourier transforms are not possible due to statistical noise in AEM microanalytical data. Hence the method of choice is to accomplish the deconvolution via iterative convolutions. In this method a function describing the assumed true composition profile calculated by physically permissible thermodynamic and kinetic modeling is convoluted with the x ray generation function and the result compared to the measured composition profile. If the measured and calculated profiles agree within experimental error it is assumed that the true compositional profile has been determined. If the measured and calculated composition profiles are in disagreement the assumptions in the physical model are adjusted and the convolution process repeated. To employ this procedure it is necessary to calculate the x ray generation function explicitly. While a variety of procedures are available for calculating this function the most accurate procedure is to use Monte Carlo modeling of electron scattering.

**International Conference on VLSI and CAD.** ,1999      Integrated Circuit Metrology, Inspection, and Process Control II Kevin M. Monahan,1988      **Integrated Circuit Metrology, Inspection, and Process Control** ,1988

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