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The Monte Carlo method for electron transport is a semiclassical Monte Carlo approach of modeling semiconductor transport. Assuming the carrier motion consists of free flights interrupted by scattering mechanisms, a computer is utilized to simulate the trajectories of particles as they move across the device under the influence of an electric field using classical mechanics. The scattering events and the duration of particle flight is determined through the use of random numbers.

Monte Carlo methods for electron transport - Wikipedia
Elekta - CMS xIO Monte Carlo system • xIO eMC module is based on the early VMC* code – simulates electron (or photon) transport through voxelized media • The beam model and electron air scatter functions were developed by CMS • The user can specify – voxel size – dose-to-medium or dose-to-water – random seed

Monte Carlo treatment planning for electron beams
Monte Carlo simulation methods for the study of electron beam interaction with solids have been mostly concerned with specimens of simple geometry. In this article, we propose a simulation algorithm for treating arbitrary complex structures in a real sample.

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Monte Carlo simulation study of electron yields from ...
Thus far, Monte Carlo electron beam simulations have been described either as typical electron optics simulations (i.e. collision free in vacuum), or exclusively in solids - or gases (plasmas) - with emphasis on the electron matter interaction.

Monte Carlo simulations of 1keV to 100keV electron ...
The origins of Quantum Monte Carlo methods are often attributed to Enrico Fermi and Robert Richtmyer who developed in 1948 a mean field particle interpretation of neutron-chain reactions, but the first heuristic-like and genetic type particle algorithm (a.k.a. Resampled or Reconfiguration Monte Carlo methods) for estimating ground state energies of quantum systems (in reduced matrix models) is ...

Monte Carlo method - Wikipedia
Electron Beam Scattering Modeling. Professor R. Gauvin has spent several years working on the development of new methods to characterize the microstructure of complex materials using electron microscopy with X-Ray microanalysis. The original approach of Professor Gauvin research is to develop Monte Carlo programs to simulate electron scattering in materials in order to correlate X-Ray emission to composition in quantitative X-Ray microanalysis.

Electron Beam Scattering Modeling
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The CASINO acronym has been derived from the words "monte CARlo Simulation of electroN trajectory in sOlids". This program is a Monte Carlo simulation of electron trajectory in solid specially designed for low beam interaction in a bulk and thin foil. This complex single scattering Monte Carlo program is specifically designed for low energy beam interaction and can be used to generate many of the recorded signals (X-rays and backscattered electrons) in a scanning electron microscope.

Casino - usherbrooke.ca
A Monte Carlo model has been developed to study the degradation of ?1000 eV electrons in an atmosphere of CO2, which is one of the most abundant species in Mars' and Venus's atmospheres. The e?CO2...

Monte Carlo model of electron energy degradation in a CO2...
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 scatter

Monte Carlo Modeling for Electron Microscopy and...
The electron trajectories are simulated by using a Monte Carlo (or random sampling) method. Each electron enters the solid with a given energy, and its trajectory is followed until it comes to rest or exits the sample. To simulate a beam, the process is repeated for a large number of electrons.

EISS - Electron beam Monte Carlo simulator
A free software package for Monte Carlo simulation of electron trajectories in solids. Available in Lehigh Microscopy School DVD. Author: David Joy. Platform: Windows. Citation: D.C. Joy, Monte Carlo Modeling for Electron Microscopy and Microanalysis, Oxford University Press, (ISBN: 0195088743), 1995. Link: http://web.utk.edu/~srcutk/htm/simulati.htm.

Masashi Watanabe's Home Page - Profile: General
A Monte Carlo code has been developed to model the interaction of an electron beam with one or two lines lithographically produced on a multilayer substrate. The purpose of the code is to enable one to extract the edge position of a line from SEM measurements.

Use of Monte Carlo modeling for interpreting scanning....
Dose calculation plays an important role in the accuracy of radiotherapy treatment planning and beam delivery. The Monte Carlo (MC) method is capable of achieving the highest accuracy in radiotherapy dose calculation and has been implemented in many commercial systems for radiotherapy treatment planning.