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This book focusses on the state of the art of Monte Carlo methods in radiation physics and particle transport simulation and applications, the latter involving in particular, the use and development of electron--gamma, neutron--gamma and hadronic codes.

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Ulam coined the term "Monte Carlo" Exponential growth with the availability of digital computers Berger (1963): first complete coupled electron-photon transport code that became known as ETRAN Exponential growth in Medical Physics since the 80s The Monte Carlo Simulation of Radiation Transport p.3/35

The Monte Carlo Simulation of Radiation Transport

Advanced Monte Carlo dose calculations for eye plaque brachytherapy by ... Eye plaque brachytherapy is a radiation therapy technique designed for treating ocular cancers. Current clinical radiation dose evaluations for eye plaque brachytherapy involve considerable assumptions, resulting in inaccurate doses. ...

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Oleg N. Vassiliev has published over 70 papers in the field medical physics, radiation transport and Monte Carlo methods, including several highly cited papers on Monte Carlo methods in radiation therapy. He has applied Monte Carlo techniques to a wide variety of problems in the field, and was one of the leading collaborators in the development of grid-based solvers of the Boltzmann equation for radiotherapy dose calculations.

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Monte Carlo Methods for Radiation Transport: Fundamentals ...

The use of the Monte Carlo method for calculations in radiotherapy dosimetry has become the most efficient and consistent tool for simulations in most of the fields related to the speciality, from basic dosimetric quantities, like stopping-power ratios and perturbation correction factors for reference ionization chamber dosimetry, to fully realistic simulations of clinical accelerators, detectors and patient treatment planning.

Monte Carlo simulations in ... - Radiation Oncology

Abstract The implementation of an improved model for multiple scattering into the Voxel Monte Carlo (VMC) algorithm for fast electron dose calculation in radiation therapy is presented. The model takes into account path-length corrections (PLC) and lateral displacement in the individual electron steps.

Improved modeling of multiple scattering in the Voxel ...

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MCC-MT. Monte Carlo 3D simulation spectra and efficiency.

Monte Carlo Techniques in Radiation Therapy explores the use of Monte Carlo methods for modeling various features of internal and external radiation sources, including light ion beams. The book—the first of its kind—world examples, it illustrates the use of Monte Carlo modeling and simulations in dose calculation, beam delivery, kilovoltage and megavoltage imaging, proton radiography ...

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