

# Hadron Therapy Physics and Simulations (SpringerBriefs in Physics)

Marcos d'Ávila Nunes

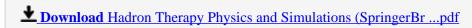
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This brief provides an in-depth overview of the physics of hadron therapy, ranging from the history to the
latest contributions to the subject. It covers the mechanisms of protons and carbon ions at the molecular level
(DNA breaks and proteins 53BP1 and RPA), the physics and mathematics of accelerators (Cyclotron and
Synchrotron), microdosimetry measurements (with new results so far achieved), and Monte Carlo
simulations in hadron therapy using FLUKA (CERN) and MCHIT (FIAS) software. The text also includes
information about proton therapy centers and carbon ion centers (PTCOG), as well as a comparison and
discussion of both techniques in treatment planning and radiation monitoring. This brief is suitable for
newcomers to medical physics as well as seasoned specialists in radiation oncology.



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