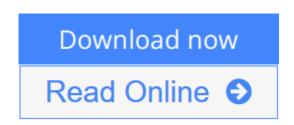


Beam Dynamics in High Energy Particle Accelerators

By Andrzej Wolski



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Particle accelerators are essential tools for scientific research in fields as diverse as high energy physics, materials science and structural biology. They are also widely used in industry and medicine. Producing the optimum design and achieving the best performance for an accelerator depends on a detailed understanding of many (often complex and sometimes subtle) effects that determine the properties and behavior of the particle beam. Beam Dynamics in High Energy Particle Accelerators provides an introduction to the concepts underlying accelerator beam line design and analysis, taking an approach that emphasizes the elegance of the subject and leads into the development of a range of powerful techniques for understanding and modeling charged particle beams.

Readership: Undergraduate students who are looking for an introduction to beam dynamics, and graduate students and researchers in the field.

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Editorial Review

From the Inside Flap

Particle accelerators are essential tools for scientific research in fields as diverse as high energy physics, materials science and structural biology. They are also widely used in industry and medicine. Producing the optimum design and achieving the best performance for an accelerator depends on a detailed understanding of many (often complex and sometimes subtle) effects that determine the properties and behavior of the particle beam.

Beam Dynamics in High Energy Particle Accelerators provides an accessible introduction to the concepts underlying accelerator beam line design and analysis, taking an approach that emphasizes the elegance of the subject and leads into the development of a range of powerful techniques for understanding and modeling charged particle beams.

Basic ideas are introduced from the start using an approach that leads logically into the development of more advanced concepts and techniques. In particular, linear dynamics is treated consistently using a Hamiltonian formalism, which provides a suitable foundation for not only perturbation theory, but also for more modern techniques based on Lie operators.

Users Review

From reader reviews:

Bobbie Flores:

Do you certainly one of people who can't read pleasurable if the sentence chained from the straightway, hold on guys this specific aren't like that. This Beam Dynamics in High Energy Particle Accelerators book is readable by you who hate the perfect word style. You will find the details here are arrange for enjoyable studying experience without leaving actually decrease the knowledge that want to provide to you. The writer involving Beam Dynamics in High Energy Particle Accelerators content conveys the thought easily to understand by a lot of people. The printed and e-book are not different in the articles but it just different as it. So , do you continue to thinking Beam Dynamics in High Energy Particle Accelerators is not loveable to be your top list reading book?

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