



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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Beam Dynamics in High Energy Particle Accelerators By Andrzej Wolski Bibliography

- Rank: #2323838 in Books
- Published on: 2014-03-31
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x 1.31" w x 5.98" l, .0 pounds
- Binding: Hardcover
- 608 pages

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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:

Elizabeth Brown:

Do you have favorite book? If you have, what is your favorite's book? Publication is very important thing for us to know everything in the world. Each book has different aim or perhaps goal; it means that publication has different type. Some people truly feel enjoy to spend their time for you to read a book. They can be reading whatever they get because their hobby is actually reading a book. How about the person who don't like looking at a book? Sometime, particular person feel need book whenever they found difficult problem or exercise. Well, probably you will want this Beam Dynamics in High Energy Particle Accelerators.

Daniel Grinder:

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James Fulk:

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