



# Beam Dynamics in High Energy Particle Accelerators

*Andrzej Wolski*

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## **Beam Dynamics in High Energy Particle Accelerators** Andrzej Wolski

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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