



Introduction to the Physics of Particle Accelerators

By Mario Conte, William M MacKay

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This book provides a concise and coherent introduction to the physics of particle accelerators. It is written for students at the graduate level in physics and provides the elements to tackle the main problems regarding cyclic particle accelerators. In particular, a thorough introduction is given on the topics of such machines. Phase focusing is also fully treated, together with fundamental topics like synchrotron radiation and linear and nonlinear resonances. A chapter is devoted to rf linear accelerators and rf structures. The chapter on space charge effects deals with tune-shifts and beam-beam interactions. The final chapter treats both electron and stochastic cooling, thus rounding up the treatment of phase-space shrinkage introduced in the chapter on synchrotron.

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Editorial Review

From the Inside Flap

This manual provides solutions to the problems given in the second edition of the textbook entitled An Introduction to the Physics of Particle Accelerators. Simple-to-solve problems play a useful role as a first check of the student's level of knowledge whereas difficult problems will test the student's capacity of finding the bearing of the problems in an interdisciplinary environment. The solutions to several problems will require strong engagement of the student, not only in accelerator physics but also in more general physical subjects, such as the profound approach to classical mechanics (discussed in Chapter 3) and the subtleties of spin dynamics (Chapter 13).

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