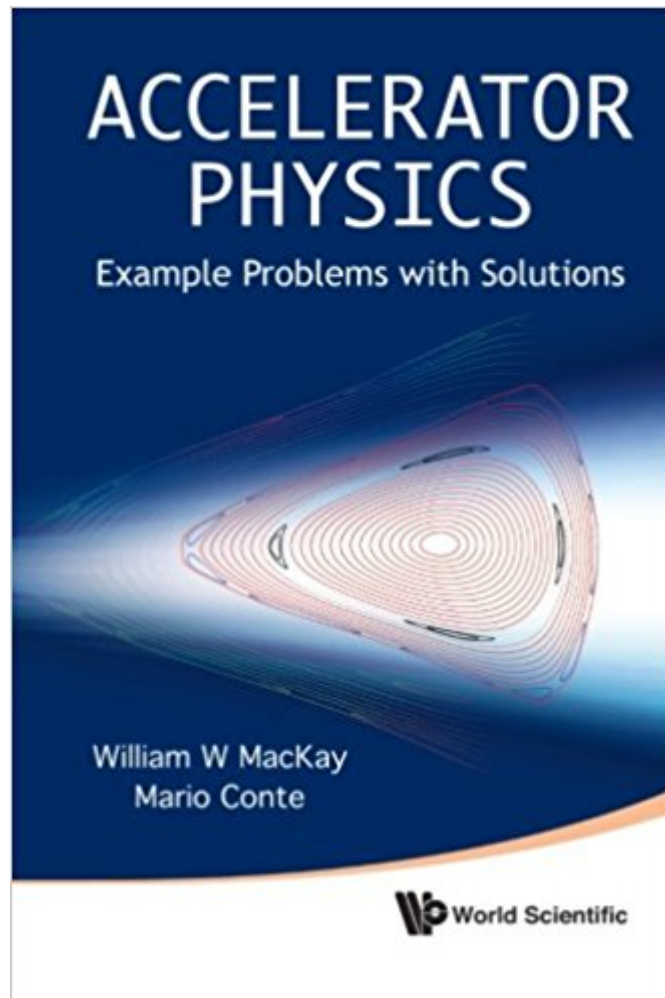




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Accelerator Physics: Example Problems With Solutions



Synopsis

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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"Overall, this book presents an opportunity to develop more-than-a-basic level of understanding of the physics of particle accelerators, and be exposed to a variety of real-world problems. Therefore, I thoroughly recommend it to any student of accelerator physics, particle physics and any reader who requires some knowledge of how these machines really work." -- Contemporary Physics

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