<<同步加速器辐射理论及其发展>>

图书基本信息

书名：<<同步加速器辐射理论及其发展>>

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内容概要

The first part of the book is devoted to fundamental results in synchrotron and undulatorradiation theory. This makes it a useful supplement to textbooks on classical and quantum electrodynamics of relativistic particles. The conventional theory is amplified with the recent investigations carried out by the contributors. A semiclassical theory of radiation is developed with regard to the influence of recoil effect and radiation of the particle magnetic moment (spin light). Of great interest is a chapter on the astrophysical aspects of SR. All these make the book of great use not only to young physicists who wish to improve their knowledge and deepen their understanding of the fascinating phenomenon of modern physics, but also to experienced theorists and users of SR. The contributors of the book belong to a well-known school of the SR-theory founded by AA Sokolov and I M Ternov. This school is an authority on the development of the theoretical principles of SR, the construction of classical and quantum theory of SR.

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