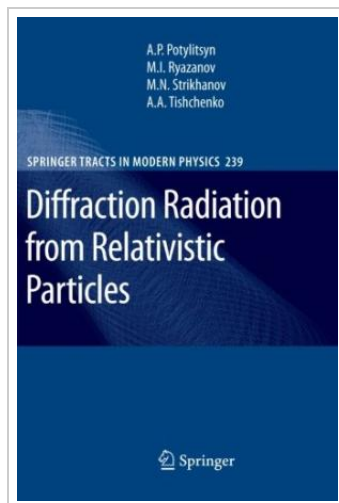




Diffraction Radiation from Relativistic Particles (Paperback)

By Alexander Petrovich Potylitsyn, Mikhail Ivanovich Ryazanov, Mikhail Nikolaevich Strikhanov

Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2012. Paperback. Condition: New. 2011 ed.. Language: English . Brand New Book ***** Print on Demand *****.This book deals with diffraction radiation, which implies the boundary problems of electromagnetic radiation theory. Diffraction radiation is generated when a charged particle moves near a target edge at a distance (- Lorentz factor, - wave length). Diffraction radiation of non-relativistic particles is widely used to design intense emitters in the cm wavelength range. Diffraction radiation from relativistic charged particles is important for noninvasive beam diagnostics and design of free electron lasers based on Smith-Purcell radiation which is diffraction radiation from periodic structures. Different analytical models of diffraction radiation and results of recent experimental studies are presented in this book. The book may also serve as guide to classical electrodynamics applications in beam physics and electrodynamics. It can be of great use for young researchers to develop skills and for experienced scientists to obtain new results.



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