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Radiation from Relativistic Electrons

**A. A. Sokolov
I. M. Ternov**

**Translated by
S. Chomet**

**Edited by
C. W. Kilmister**

Radiation From Relativistic Electrons

**Stanford University. Microwave
Laboratory**



Radiation From Relativistic Electrons:

Radiation from Relativistic Electrons A.A. Sokolov, I.M. Ternov, 1986 **Novel Radiation Sources Using Relativistic Electrons** P. Rullhusen, X. Artru, Pierre Dhez, 1998 The purpose of this book is to give a description of the state of the art in theoretical and experimental work achieved in radiation source development It summarizes clearly and comprehensibly the basic physical aspects needed to understand the phenomena and also provides the interested reader with sufficient literature to be able to follow the development in more detail In addition it contains a unified view of most theoretical effects and their common properties The most recent developments as well as references to further work can be found in this volume In many cases review articles and textbooks published in specialized areas are also incorporated into the text **Radiation from Relativistic Electrons, Monthly Letter Report**, 1957 **Radiation from Relativistic Electrons, Monthly Letter Report** Stanford University. Microwave Laboratory, K. B. Mallory, 1956 **Radiation from Relativistic Electrons, Monthly Letter** Stanford University. Microwave Laboratory, K. B. Mallory, 1957 *Radiation from Relativistic Electrons, Monthly Letter Report* Stanford University. Microwave Laboratory, K. B. Mallory, 1957 **Radiation from Relativistic Electrons, Monthly Letter Report** Stanford University. Microwave Laboratory, K. B. Mallory, 1957 Radiation from Relativistic Electrons, Sixth Quarterly Progress Report Stanford University. Microwave Laboratory, 1957 **Radiation of Relativistic Electrons in Periodic Structures** Ju L. Pivovarov, A. P. Potylitsin, 1997-01-01 The Symposium was organised by the Nuclear Physics Institute Tomsk Polytechnic University and held in Tomsk Russia September 4 8 1995 Scientists from Russia and CIS countries USA Japan Germany Belgium Denmark France attended the Symposium 53 plenary and original reports were presented The aim of the Symposium was to discuss the current state of research into the fundamental and applied aspects of the radiation of relativistic electrons in natural and artificial periodical structures The importance of phenomena is illustrated by the range of electron energies involved from a hundred MeV in X Ray visible light and RF generation experiments to hundreds of GeV in recent channelling experiments *Radiation from Relativistic Electrons, Fourteenth Quarterly Progress Report* Stanford University. Microwave Laboratory, 1959 *Radiation from Relativistic Electrons, Second Quarterly Progress Report* Stanford University. Microwave Laboratory, 1956 Radiation from Relativistic Electrons, Thirteenth Quarterly Progress Report Stanford University. Microwave Laboratory, 1959 *On Radiation by Relativistic Electrons and Positrons Channeled in Crystals* Sultan B. Dabagov, N. K. Zhevago, Società italiana di fisica, 2008 **Radiation from Relativistic Electrons, Fifth Quarterly Progress Report** Stanford University. Microwave Laboratory, 1957 **Synchrotron-Cherenkov Radiation of Relativistic Electrons in a Cold Plasma** Gabor Kalman, Stanford Yukon, BOSTON COLL CHESTNUT HILL MASS DEPT OF PHYSICS., 1972 The radiation emitted by a relativistic electron in a cold magnetoplasma is calculated employing the method of energy loss While the power loss per unit frequency interval in the neighborhood of the ionic electronic or plasma resonance is divergent it is shown to be integrable

for each harmonic of the relativistic gyrofrequency The sum of the power losses over all harmonics though is divergent as the logarithm of the maximum harmonic number for a wide frequency domain depending on the pitch angle α and direction of propagation θ By decomposing the total radiation into longitudinal and transverse parts the transverse portion is shown to be finite everywhere A computer code has been developed to calculate the total and transverse power spectra for arbitrary plasma and particle parameters Results for a variety of particle energies and pitch angles are presented Author

Radiation from Relativistic Electrons, Third Quarterly Progress Report Stanford University. Microwave Laboratory, 1957

Radiation from Relativistic Electrons, Eleventh Quarterly Progress Report Stanford University. Microwave Laboratory, 1959 **Radiation from Relativistic Electrons, Fourth Quarterly Progress Report** Stanford University. Microwave Laboratory, 1957 **The Radiation of Relativistic Electrons in Radio Astronomy** H.E.C. Tunmer, 1959

Radiation from Relativistic Electrons, Ninth Quarterly Progress Report Stanford University. Microwave Laboratory, 1958

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