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Beam-Wave Interaction in Periodic and Quasi-Periodic ...

The main theme of this book is the interaction of electrons with electromagnetic waves in the presence of periodic and quasi-periodic structures in vacuum. The first chapter describes the principal interaction mechanisms of a single particle with radiation.

Beam wave interaction in periodic and quasi-periodic ...

Beam Wave Interaction In Periodic And Quasi Periodic Structures Schchter Levi.pdf beam-wave interaction in periodic and quasi-periodic the first part of the book is concerned with the textbook-like presentation of the basic material, in particular reviewing elementary electromagnetic phenomena and electron dynamics.

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Beam-Wave Interaction in a Quasi-Periodic Structure * ... (THz) radiation is derived with the help of fluid theory, and the interaction of beam-wave is analyzed by the numerical solutions.

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Beam Wave Interaction In Periodic And Quasi Periodic ...

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Beam-wave interaction in periodic and quasi-periodic ...

beam-wave interaction in periodic and quasi-periodic one of the important systems where beam-wave interaction in periodic structures plays a crucial role is the particle accelerator. the latter provides us with a unique tool to test, on earth, the (pdf) beam-wave interaction in a quasi-periodic structure beam-wave

10+ Beam Wave Interaction In Periodic And Quasi Periodic ...

Periodic structure theory is used to study the interactions between flexural and longitudinal wave motion in a beam (representing a plate) to which offset spring-mounted masses (representing stiffeners) are attached at regular intervals.

G-band Rectangular Beam Extended Interaction Klystron ...

Sep 04, 2020 beam wave interaction in periodic and quasi periodic structures particle acceleration and detection Posted By Laura BasukiPublic Library TEXT ID b99b9cd0 Online PDF Ebook Epub Library Beam Wave Interaction In Periodic And Quasi Periodic

Beam-Wave Interaction in Periodic and Quasi-Periodic ...

Beam wave interaction in periodic and quasi-periodic structures. Both first and second edition were published by Levi Schächter graduated from the Electrical Engineering [B.Sc. (1983), M.Sc.(1985) and D.Sc.(1988)] and Physics [B.A. (1985)] Departments of the Technion - Israel Institute of Technology.

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(PDF) Beam-wave interaction in a quasi-periodic structure

Beam-Wave Interaction in Periodic and Quasi-Periodic StructuresAuthor: Dr. Levi Schächter Published by Springer Berlin Heidelberg ISBN: 978-3-662-03400-2 DOI:...

Beam-Wave Interaction in Periodic and Quasi-Periodic ...

The second part of the book describes the current models for beam-wave interactions with periodic and quasi-periodic structures. This is the basis for introducing, in the last part of the book, a number of particle and radiation sources that rest on these principles, in particular the free-electron laser, wake-field acceleration schemes and a number of other advanced particle accelerator concepts.

Beam-Wave Interaction in Periodic and Quasi-Periodic ...

in high-power traveling wave tubes, electron emission from ferro-electric materials, particle acceleration by stimulated emission of radiation (PASER), ... 100 articles in refereed journals and a textbook Beam wave interaction in periodic and quasi-periodic structures. Both first and second edition were published by Springer-Verlag.

Beam Wave Interaction In Periodic

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Beam-wave interaction in periodic and quasi-periodic ...

This work is concerned with a general analysis of wave interactions in periodic structures and particularly periodic thin film dielectric waveguides. The electromagnetic wave propagation in an asymmetric dielectric waveguide with a periodically perturbed surface is analyzed in terms of a Floquet mode solution. First order approximate analytical expressions for the space harmonics are obtained.

Beam-Wave Interaction in Periodic and Quasi-Periodic ...

Abstract: A rectangular beam G-band extended interaction klystron (EIK) based on planar bi-periodic slow wave structure (SWS) is proposed. Such structure has the advantages of uniform and strong electric field, as well as the large frequency spacing, which implies that EIK adopting such structure will have strong beam-wave interaction and will be easy to avoid the mode competition.

Beam Wave Interaction In Periodic And Quasi Periodic ...

This text is primarily concerned with the interaction of electrons with electromagnetic waves for the generation and amplification of radiation. It dicusses the various methods of electron-beam generation and propagation and the basic electron-wave interaction schemes, then it presents an idealized picture of the beam-wave interaction in a dielectric loaded waveguide.