Electrodynamic Characteristics of Accelerating Cavities

N.P. Sobenin and B.V. Zverev



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David Kirk

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Electrodynamic Characteristics of Accelerating Cavities N P Sobenin, B V Zverev, 1999-07-23 Now available for the first time in English translation this important book contains extensive material relating to the electrodynamic characteristics of linear accelerators and gives a good overview of the fundamentals of accelerating cavity design. The authors describe the experimental methods and measurement techniques essential in this area of research and provide comprehensive data about the electrodynamic characteristics of resonant structures which are widely used in charged particle accelerators and microwave devices Single cavities and coupling chains excited in electrical and magnetic modes are described numerically and analyzed in detail The book also provides a valuable description of the perturbation method which is illustrated using a Electrodynamic Characteristics of Accelerating Cavities N P Sobenin, B V Zverev, 2020-08-13 unique collection of data Now available for the first time in English translation this important book contains extensive material relating to the electrodynamic characteristics of linear accelerators and gives a good overview of the fundamentals of accelerating cavity design The authors describe the experimental methods and measurement techniques essential in this area of research and provide comprehensive data about the electrodynamic characteristics of resonant structures which are widely used in charged particle accelerators and microwave devices Single cavities and coupling chains excited in electrical and magnetic modes are described numerically and analyzed in detail The book also provides a valuable description of the perturbation method which is illustrated using a unique collection of data **Energy Research Abstracts** ,1984 Accelerator School Radio Frequency Engineering, Seeheim, Germany, 8-16 May 2000 Proceedings European Organization for On the Properties of Novel Superconductors Heshmatollah Yavari, 2020-07-29 Since the Nuclear Research.2005 discovery of superconductivity a great number of theoretical and experimental efforts have been made to describe this new phase of matter that emerged in many body systems In this regard theoretical models have been presented the most famous of which was the BCS theory that can only describe conventional superconductors With the discovery of new class superconductors the superconducting mechanism became a new challenge in the field of condensed matter physics This unexpected discovery opened a new area in the history of superconductivity and experimental researchers started trying to find new compounds in this class of superconductors These superconductors are often characterized by the anisotropic character in the superconducting gap function with nodes along a certain direction in the momentum space Since the pairing interaction has an important role in the superconducting gap structure its determination is very important to explain the basic pairing mechanism In this regard this book includes valuable theoretical and experimental discussions about the properties of superconductors Here you will find valuable research describing the properties of unconventional superconductors **Book Review Index** ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index

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