



Industrial Accelerators and Their Applications

Hamm Robert W Et Al

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This unique new book is a comprehensive review of the many current industrial applications of particle accelerators, written by experts in each of these fields. Readers will gain a broad understanding of the principles of these applications, the extent to which they are employed, and the accelerator technology utilized. The book also serves as a thorough introduction to these fields for non-experts and laymen.

Due to the increased interest in industrial applications, there is a growing interest among accelerator physicists and many other scientists worldwide in understanding how accelerators are used in various applications. The government agencies that fund scientific research with accelerators are also seeking more information on the many commercial applications that have been or can be developed with the technology developments they are funding. Many industries are also doing more research on how they can improve their products or processes using particle beams

Contents:

- Introduction to the Beam Business (*Robert W Hamm and Marianne E Hamm*)
- Ion Implantation for Fabrication of Semiconductor Devices and Materials (*Michael I Current*)
- Electron Beam Materials Processing (*Donald E Powers*)
- Electron Beam Materials Irradiators (*Marshall R Cleland*)
- Accelerator Production of Radionuclides (*David J Schlyer and Thomas J Ruth*)
- Industrial Aspects of Ion Beam Analysis (*Ragnar Hellborg and Harry J Whitlow*)
- Production and Applications of Neutrons Using Particle Accelerators (*David L Chichester*)
- Nondestructive Testing and Inspection Using Electron Linacs (*William A Reed*)
- Industrial Use of Synchrotron Radiation: Love at Second Sight (*Josef Hormes and Jeffrey Warner*)

Readership: Physicists, engineers and practitioners in accelerator technology and applications.

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