



# RF Linear Accelerators for Medical and Industrial Applications

*By Samy Hanna*

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**RF Linear Accelerators for Medical and Industrial Applications** By Samy Hanna

This unique resource offers a clear overview of medical and industrial accelerators. Using minimal mathematics, this book provides thorough explanations of basic concepts surrounding the operation of accelerators.

This practical book details the manufacturing process for producing commercial accelerators. Professionals become knowledgeable about the commonly encountered real-world manufacturing issues and potential sources of defects which help them avoid costly production problems.

From principles of operation and the role of accelerators in cancer radiation therapy, to manufacturing techniques and future trends in accelerator design and applications, this easy-to-comprehend volume quickly brings professionals using accelerators up-to-speed with the critical concepts they need in their accelerator application field. Engineers, medical physicists, oncologists, and chemist find well illustrated discussions designed to help them use accelerator-based systems in a safer, more productive, and more reliable manner

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## **RF Linear Accelerators for Medical and Industrial Applications By Samy Hanna Bibliography**

- Sales Rank: #3011550 in Books
- Published on: 2012-03-31
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .60" w x 6.10" l, .90 pounds
- Binding: Hardcover
- 216 pages

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### **Editorial Review**

#### **About the Author**

Samy Hanna is the principal of Microwave Innovative Accelerators (MINA), a consulting company in the area of RF engineering. He has over 25 years of engineering experience in education, research, and industry. He was previously a principal engineer and a senior manager at Siemens Medical, an engineering physicist at SLAC-Stanford University, and an associate professor of electrical engineering at Polytechnic University in New York. He is a licensed professional engineer in the State of California and the inventor of seven US patents. Dr. Hanna earned his graduate degrees from Caltech and Purdue University.

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