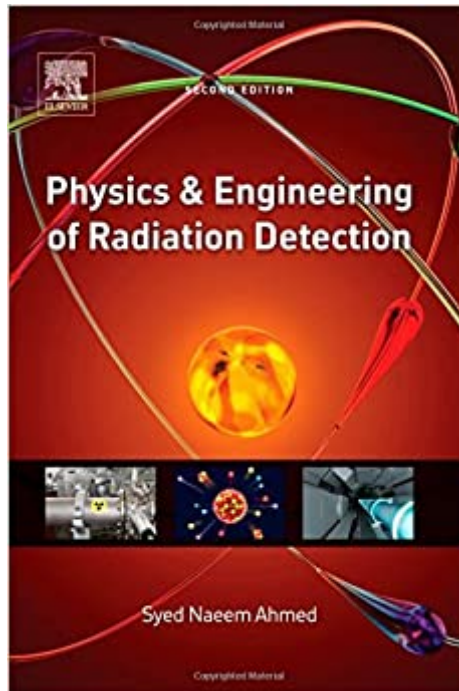




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Physics And Engineering Of Radiation Detection, Second Edition



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Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications. It covers the origins and properties of different kinds of ionizing radiation, their detection and measurement, and the procedures used to protect people and the environment from their potentially harmful effects. The second edition is a fully revised and provides the latest developments in detector technology and analyses software. Also, more material related to measurements in particle physics and a complete solutions manual have been added. Discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked-out examples and end-of-chapter problems Detailed discussions on different detection media, such as gases, liquids, liquefied gases, semiconductors, and scintillators Chapters on statistics, data analysis techniques, software for data analysis, and data acquisition systems

Book Information

Hardcover: 784 pages

Publisher: Elsevier; 2 edition (December 10, 2014)

Language: English

ISBN-10: 012801363X

ISBN-13: 978-0128013632

Product Dimensions: 6.1 x 1.5 x 9 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

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Dr. Ahmed has several years of extensive practical experience in the field of radiation detection and measurement. He holds degrees of Masters in Physics, Masters in Nuclear Engineering, and PhD in Physics. He has heavily contributed to research and development in some of the world renowned Physics laboratories, such as Max-Planck-Institute for Physics in Germany, Fermi National Accelerator Laboratory in USA, and Sudbury Neutrino Observatory in Canada. Particle/radiation detection and measurement are his primary areas of expertise. Currently he is working at

Laurentian University/Penguin ASI Inc. as a Senior Research Scientist. Apart from research and development, Dr. Ahmed also teaches in the Physics department of Laurentian University. Dr. Ahmed is a Chartered Scientist and a Chartered Physicist of the Institute of Physics, UK. He holds memberships of the Institute of Physics, UK, the Canadian Association of Physicists, and the Institute of Particle Physics, Canada.

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