Measurement and Detection of Radiation, Third Edition

Nicholas Tsoulfanidis

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The research and applications of nuclear instrumentation have grown substantially since publication of the previous editions. With the miniaturization of equipment, increased speed of electronic components, and more sophisticated software, radiation detection systems are now more productively used in many disciplines, including nuclear nonproliferation, homeland security, and nuclear medicine. Continuing in the tradition of its bestselling predecessors, **Measurement and Detection of Radiation, Third Edition** illustrates the fundamentals of nuclear interactions and radiation detection with a multitude of examples and problems. It offers a clearly written, accessible introduction to nuclear instrumentation concepts.

New to the Third Edition

- A new chapter on the latest applications of radiation detection, covering nuclear medicine, dosimetry, health physics, nonproliferation, and homeland security
- Updates to all chapters and subtopics within chapters, as needed
- Many new references and a completely updated bibliography

This third edition of a classic textbook continues to serve new students entering the nuclear science and engineering fields. It enables them to select the proper detector, analyze the results of counting experiments, and perform radiation measurements that follow proper health physics procedures. A solutions manual is available with qualifying course adoption.

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