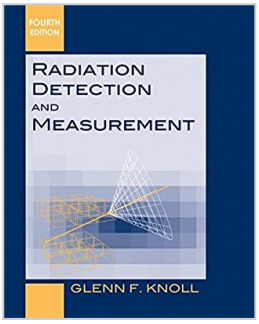

Radiation Detection and Measurement

By Glenn F. Knoll

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This is the resource that engineers turn to in the study of radiation detection. The fourth edition takes into account the technical developments that continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation. New coverage is presented on ROC curves, micropattern gas detectors, new sensors for scintillation light, and the excess noise factor. Revised discussions are also included on TLDs and cryogenic spectrometers, radiation backgrounds, and the VME standard. Engineers will gain a strong understanding of the field with this updated book.

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Editorial Review

Review
Solutions Manual available. -- *The publisher, John Wiley & Sons*

From the Publisher
A new edition of the most comprehensive text/reference available on the methods and instrumentation used in the detection of ionizing radiation. Updated to reflect advances since the first edition came out in 1979. Retains the general organization of the first edition--all topics of importance are covered in sufficient detail to lead the reader from basic principles to examples of modern applications. Covers modern engineering practice; provides useful design information; and contains an up-to-date and thorough review of the literature.

From the Back Cover
A Classic Text on Radiation Detection and Measurement Now Updated and Expanded Building on the proven success of this widely-used text, the Third Edition will provide you with a clear understanding of the methods and instrumentation used in the detection and measurement of ionizing radiation. It provides in-depth coverage of the basic principles of radiation detection as well as illustrating their application in a full set of modern instruments. In addition to a complete description of well-established detection and spectroscopic methods, many recently developed approaches are also explored. These include extensive new discussions of semiconductor detectors with unique properties, recently developed scintillation materials and photomultiplier tubes, and several gas-filled detectors of new design. Many other updates and additions have been made throughout the text and two appendices have been added. Over 100 new figures and tables have been included. Key Features of the Third Edition
* Every chapter has been updated with extensive addition of new references to relevant articles in the scientific literature.
* A number of new detection techniques have been added, strengthening the status of the text as the most comprehensive coverage of the topic to be found in any single book.
* The writing style has maintained the readability that has attracted favorable response from readers and reviewers of the earlier editions.
* The author uses his extensive research experience in radiation measurements, nuclear instrumentation, and radiation imaging to provide you with an invaluable resource.

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