



# Radiation Detection and Measurement

By Glenn F. Knoll

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## Radiation Detection and Measurement By Glenn F. Knoll

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.

### Users Review

#### From reader reviews:

##### Shirley Morales:

This Radiation Detection and Measurement book is just not ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is usually information inside this book incredible fresh, you will get details which is getting deeper an individual read a lot of information you will get. That Radiation Detection and Measurement without we understand teach the one who reading it become critical in considering and analyzing. Don't always be worry Radiation Detection and Measurement can bring whenever you are and not make your case space or bookshelves' turn out to be full because you can have it in your lovely laptop even cell phone. This Radiation Detection and Measurement having good arrangement in word as well as layout, so you will not really feel uninterested in reading.

**William Pare:**

The book with title Radiation Detection and Measurement has a lot of information that you can discover it. You can get a lot of benefit after read this book. This specific book exist new information the information that exist in this e-book represented the condition of the world at this point. That is important to you to be aware of how the improvement of the world. This particular book will bring you inside new era of the globalization. You can read the e-book with your smart phone, so you can read the item anywhere you want.

**Steven Holloway:**

People live in this new day of lifestyle always aim to and must have the free time or they will get great deal of stress from both way of life and work. So , when we ask do people have extra time, we will say absolutely sure. People is human not just a robot. Then we consult again, what kind of activity do you possess when the spare time coming to you of course your answer will certainly unlimited right. Then do you ever try this one, reading ebooks. It can be your alternative inside spending your spare time, the actual book you have read is actually Radiation Detection and Measurement.

**Johnny Sutton:**

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