



# Radiation Dosimetry Instrumentation and Methods

*Gad Shani*

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## **Radiation Dosimetry Instrumentation and Methods** Gad Shani

Radiation Dosimetry Instrumentation and Methods provides the basic theory and practical methods of radiation dosimetry. The book begins with a review of the theoretical basis of radiation dosimetry and the system of units used in the measurements. The remainder of the book presents dosimetry methods widely used in nuclear medicine, as well as new techniques and methods that are applied only in specific circumstances. The theoretical basis on which each method is based and the practical and technical details of each dosimeter's design and construction are presented. Dosimetry methods are compared and correction factors and adjustments offered in the final chapter. The methods discussed in this fascinating text include ionization chambers, thermoluminescence dosimeters (TLD), photographic emulsion, chemical dosimetry and calorimetry, lyoluminescence dosimetry, solid state detectors, tritium monitoring, and neutron dosimetry. Radiation Dosimetry Instrumentation and Methods is an excellent book for physicians in nuclear medicine, hospital radioisotope departments, radiobiologists, radiochemists, and users of nuclear radiation for scientific, technical and energy production purposes.

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