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Decommissioning Health Physics: A Handbook for MARSSIM Users, Second Edition

Eric W. Abelquist

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Experienced Guidance on the Technical Issues of Decommissioning Projects
Written by one of the original MARSSIM authors, **Decommissioning Health Physics: A Handbook for MARSSIM Users, Second Edition** is the only book to incorporate all of the requisite technical aspects of planning and executing radiological surveys in support of decommissioning. Extensively revised and updated, it covers survey instrumentation, detection sensitivity, statistics, dose modeling, survey procedures, and release criteria.

New to the Second Edition

- Chapter on hot spot assessment that recognizes appropriate dosimetric significance of hot spots when designing surveys and includes a new approach for establishing hot spot limits
- Chapter on the clearance or release of materials, highlighting aspects of the MARSAME manual
- Revised chapter on characterization survey design to reflect guidance in ANSI N13.59 on the value of data quality objectives (DQOs)
- Updated regulations and guidance documents throughout
- Updated survey instrumentation used to support decontamination and decommissioning (D&D) surveys, including expanded coverage of *in situ* gamma spectrometers
- Revised statistics chapter that includes an introduction to Bayesian statistics and additional double sampling and ranked set sampling statistical approaches
- More case studies and examples throughout

Implement the Surveys Effectively and Avoid Common Pitfalls
With more than 20 years of experience as a practitioner in the decommissioning survey field, author Eric W. Abelquist prepares you for the technical challenges associated with planning and executing MARSSIM surveys. He discusses the application of statistics for survey design and data reduction and addresses the selection of survey instrumentation and detection sensitivity. He presents final status survey procedures and covers pathway modeling to translate release criteria to measurable quantities. He also offers solutions for navigating the complexity inherent in designing and implementing MARSSIM and MARSAME surveys. Detailed derivations, thorough discussions of technical bases, and real-world examples and case studies illustrate effective strategies for demonstrating to regulators and stakeholders that contaminated sites can be released for other beneficial uses.

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