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Sommario/riassunto	Interval Finite Element Method with MATLAB provides a thorough introduction to an effective way of investigating problems involving uncertainty using computational modeling. The well-known and versatile Finite Element Method (FEM) is combined with the concept of interval uncertainties to develop the Interval Finite Element Method (IFEM). An interval or stochastic environment in parameters and variables is used in place of crisp ones to make the governing equations interval, thereby allowing modeling of the problem. The concept of interval uncertainties is systematically explained. Several examples are explored with IFEM using MATLAB on topics like spring mass, bar, truss and frame. Provides a systematic approach to understanding the interval uncertainties caused by vague or imprecise data Describes the interval finite element method in detail Gives step-by-step instructions for how to use MATLAB code for IFEM Provides a range of examples of IFEM in use, with accompanying MATLAB codes

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Autore	Amiard J. C.
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Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Preface -- Acknowledgments -- Chapter 1. General Information on Marine Radioecology and on Risk Assessment -- 1.1. General information on radioecology -- 1.1.1. History of radioecology -- 1.1.2. The main marine radioecology laboratories -- 1.1.3. The triad of radioecology: exposure, bioaccumulation and adverse effect -- 1.2. The principle of risk assessment -- 1.3. The particular case of the risk linked to ionizing radiation -- Chapter 2. The Origins of Radionuclides in Marine Environments -- 2.1. Natural or anthropogenic origins of radionuclides in the marine environment -- 2.2. The natural origins of radionuclides -- 2.3. The military origins of anthropogenic radionuclides -- 2.3.1. Radionuclides due to atmospheric fallout from atomic device explosions -- 2.3.2. Direct releases of radionuclides from nuclear deterrence activities -- 2.3.3. Indirect releases of radionuclides due to nuclear deterrence activities -- 2.4. Civilian origins of anthropogenic radionuclides related to the nuclear fuel cycle -- 2.4.1. Uranium mines and nuclear fuel fabrication plants -- 2.4.2. The use of nuclear fuel -- 2.4.3. Spent fuel reprocessing plants -- 2.5. The origins of anthropogenic radionuclides linked to accidents -- 2.5.1. The Thule accident -- 2.5.2. Releases due to submarine accidents -- 2.5.3. The Chernobyl accident -- 2.5.4. The Fukushima accident -- 2.6. Indirect

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Anthropogenic origins of radioactive waste -- 2.8. Conclusion --
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