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ISBN	1-118-91002-8 1-118-91003-6 1-118-91052-4
Edizione	[Second edition.]
Descrizione fisica	1 online resource (441 p.)
Disciplina	615.9/02
Soggetti	Communicable diseases - Methodology - Methodology Health risk assessment Infection - Mathematical models Environmental health - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Motivation -- Microbial agents and transmission -- Risk assessment paradigms -- Conducting the hazard identification (HAZ ID) -- Analytical methods and QMRA framework -- Exposure assessment -- Predictive microbiology -- Conducting the dose-response assessment -- Uncertainty -- Population disease transmission -- Risk characterization and decision making
Sommario/riassunto	Provides the latest QMRA methodologies to determine infection risk cause by either accidental microbial infections or deliberate infections caused by terrorism. Reviews the latest methodologies to quantify at every step of the microbial exposure pathways, from the first release of a pathogen to the actual human infection. Provides techniques on how to gather information, on how each microorganism moves through the environment, how to determine their survival rates on various media, and how people are exposed to the microorganism. Explains how QMRA can be used as a tool to measure the impact of interventions and identify the best policies and practices to protect public health and

safety. Includes new information on genetic methods. Techniques use to develop risk models for drinking water, groundwater, recreational water, food and pathogens in the indoor environment. -- Publisher