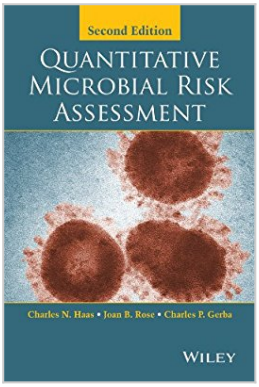

Quantitative Microbial Risk Assessment

By Charles N. Haas, Joan B. Rose, Charles P. Gerba

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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

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Editorial Review

From the Back Cover
The new edition of this book is an outgrowth of an independent research center established by the United States Department of Homeland Security and the Environmental Protection Agency, dedicated to advancing laboratory techniques, creating mathematical tools, and developing datasets needed to improve Quantitative Microbial Risk Assessment (QMRA). This book looks at 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. It 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 (i.e. skin contact, inhalation, or ingestion). The book explains how these measurements can give us a comprehensive view of how environmental contamination (deliberate or accidental) can lead to human infection and reveals key points where interventions can be employed to save lives. Since QMRA allows the reader to incorporate interventions into risk estimates, the book 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.

About the Author

Charles N. Haas is the head of the department of Civil, Architectural and Environmental Engineering at Drexel University and the Betz Chair Professor of Environmental Engineering. He has served on numerous advisory committees of the US EPA and the National Research Council

Joan Rose serves as the Homer Nowlin Chair in Water Research at Michigan State University, the Co-Director of the Center for Advancing Microbial Risk Assessment (CAMRA) and the Director of the Center for Water Sciences (CWS). She is a member of the National Academy of Engineering.

Charles P. Gerba is a Professor in the department of Soil, Water and Environmental Science at the University of Arizona. He is the author of 11 books and over 400 journal papers. Dr. Gerba is a member of the U.S. Environmental Protection Agency's Science Advisory Board Committees on Drinking Water and Research Strategies.

Users Review

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This Quantitative Microbial Risk Assessment book is not ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book will be information inside this guide incredible fresh, you will get data which is getting deeper an individual read a lot of information you will get. This kind of Quantitative Microbial Risk Assessment without we recognize teach the one who reading it become critical in considering and analyzing. Don't become worry Quantitative Microbial Risk Assessment can bring whenever you are and not make your bag space or bookshelves' become full because you can have it in your lovely laptop even phone. This Quantitative Microbial Risk Assessment having great arrangement in word along with layout, so you will not truly feel uninterested in reading.

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