Risk Assessment for Chemicals in Drinking Water
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DESCRIPTION

A comprehensive reference on state-of-the-art risk assessment methodologies for drinking water.

*Risk Assessment for Chemicals in Drinking Water* discusses the major steps and goals in risk assessments and suggests ways to improve the methodologies and accuracy, while consolidating up-to-date information on the current principles and practices in one authoritative reference. After an enlightening overview of risk assessment practices and regulatory guidelines, it:

- Includes descriptions of the use of variability analysis, exposure analysis, physiologically based pharmacokinetics, and modeling for both cancer and non-cancer endpoints.
- Describes the practices of major organizations, including the U.S. EPA, Health Canada, World Health Organization, and California Office of Environmental Health Hazard Assessment.
- Includes complete chapters on risk assessment for essential nutrients, arsenic, chloroform, and perchlorate.
- Explains how to address susceptible sub-populations, including the elderly and infants and children, in risk assessments.
- Covers the potential of using genomic and proteomic screens.
- Addresses recent advances, emerging issues, and future challenges.
With contributions and perspectives from leading scientists, this is the definitive resource for health and environmental scientists, toxicologists, risk assessors and managers, regulators, consultants, and other professionals responsible for the safety of drinking water.

ABOUT THE AUTHOR

ROBERT A. HOWD is Chief of the Water Toxicology Section in the Office of Environmental Health Hazard Assessment of the California EPA, supervising the production of California Public Health Goals for chemicals in drinking water. Dr. Howd has authored or coauthored over fifty formal scientific publications and numerous government reports.

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