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At this time when regulatory agencies are accepting and actively encouraging probabilistic approaches and the attribution of overall uncertainty among inputs to support Value of Information

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analyses, a comprehensive sourcebook on

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uncertainty in exposure analysis is sorely

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and uncertainty in support of A
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making. 151 graphs, plots, charts, and
figures supplement a broad range of
detailed and practical examples.

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The purpose of this document is to provide an introductory handbook for the Air Force remedial project manager (RPM) and other health professionals, such as the Bioenvironmental Engineer, to identify the appropriate use of probabilistic techniques for a site, and the methods by which probabilistic risk assessment can be

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used to quantify uncertainty. This document assumes that the RPM or other health professional is somewhat familiar with the basics of the risk assessment and risk management decision making process as implemented in hazardous waste site remediations. This document emphasizes the Monte Carlo probabilistic method and

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the exposure assessment step of the human health risk assessment process. This includes the techniques and methodology as provided in the United States

Environmental Protection Agency's Risk Assessment Guidance for Superfund (RAGS). Probabilistic risk assessment should be viewed as one of a set of

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appropriate tools in a tiered approach to performing enhanced site specific risk assessment. Example calculations showing results of deterministic and probabilistic risk assessments are provided for illustration as well as several appendices that contain supporting information.

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This timely publication concentrates on the exposure to pesticides by agricultural workers and residential users of pesticides through inhalation and physical contact. The book discusses more recently discovered risks such as pesticides on indoor carpets and includes new trends in data interpretation. Occupational &

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Residential Exposure Assessment for
Pesticides complements the other title on
pesticide exposure in the series - Pesticide
Residues in Drinking Water, by
Hamilton/Crossley and is a must for all
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Risk management decisions are a military decision-maker's primary responsibility and are based on risk assessments characterizing the probability and severity of the potential mission effect. Military deployment environmental hazard tolerances are presently based on point estimates of exposure risks using regulatory

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standards. The goal of this research is the evaluation of deterministic and probabilistic techniques in assessing and characterizing deployment exposure risks.

This research estimated noncarcinogenic health risk from inhalation exposure to benzene during a military deployment, based on air monitoring conducted at 16

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Locations using U.S. Environmental
Protection Agency (EPA) methods and
guidelines. Ambient benzene
concentrations -3.86 microgram/m³
(Tuzla), 8.27 microgram/m³ (1st
Brigade), and 1.1 microgram/m³ (2nd
Brigade) - were similar to U.S. urban
areas. Hazard quotients derived using

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EPA's Reasonable Maximum Exposure
(RME) procedures and Monte Carlo
simulations for deployed occupational
cohorts are compared. An RfDi calculated
by time-weighting EPA's reference
concentration and the American
Conference of Government Industrial
Hygienists' Threshold Limit Value is

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proposed for military deployment risk assessment.

Unlike many existing books on toxicology that cover either toxicity of a particular substance or toxicity of chemicals on particular organ systems, Toxicological Risk Assessment of Chemicals: A Practical

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Guide lays out the principle activities of conducting a toxicological risk assessment, including international approaches and methods for the risk assessment of chemical substances. It illustrates each step in the process: hazard identification, a dose response assessment, and exposure assessment. The book also summarizes the

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basic concepts of interaction of chemicals
in mixtures and discusses various
approaches to testing such mixtures.
Features: Addresses standards from all
international regulatory agencies Presents
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hazard identification, exposure assessment,
and risk characterization Covers the

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assessment of multiple chemical exposures
or chemical mixtures Contains data from
both human and animal studies Explains
the linearized multi-stage mathematical
model widely used by the US EPA for
characterizing

"Published under the joint sponsorship of

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the World Health Organization, the
International Labour Organization and
the United Nations Environment
Programme, and produced within the
framework of the Inter-Organization
Programme for the Sound Management of
Chemicals"--P. [i].

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A series of computer tools has been developed to conduct the exposure assessment and risk characterization phases of human health risk assessments within a probabilistic framework. The tools are collectively referred to as the Probabilistic Risk Evaluation and Characterization Investigation System

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(PRÉCIS). With this system, a risk assessor can calculate the doses and risks associated with multiple environmental and exposure pathways, for both chemicals and radioactive contaminants. Exposure assessment models in the system account for transport of contaminants to receptor points from a source zone

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originating in unsaturated soils above the water table. In addition to performing calculations of dose and risk based on initial concentrations, PRÉCIS can also be used in an inverse manner to compute soil concentrations in the source area that must not be exceeded if prescribed limits on dose or risk are to be met. Such soil

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contaminant levels, referred to as soil guidelines, are computed for both single contaminants and chemical mixtures and can be used as action levels or cleanup levels. Probabilistic estimates of risk, dose and soil guidelines are derived using Monte Carlo techniques.

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This book closes a current gap by providing the scientific basis for consumer exposure assessment in the context of regulatory risk assessment. Risk is defined as the likelihood of an event occurring and the severity of its effects. The margin between the dose that leads to toxic effects and the actual dose of a chemical is

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identified by estimating population exposure. The objective of this book is to provide an introduction into the scientific principles of consumer exposure assessment, and to describe the methods used to estimate doses of chemicals, the statistics applied and computer tools needed. This is presented through the

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backgrounds of the special fields in exposure analysis, such as exposure via food and by the use of consumer products, toys, clothing and other items. As a general concept, human exposure is also understood to include exposure via the environment and from the work setting. In this context, the specific features of

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consumer exposure are pointed out and put into the context of regulation, in particular food safety, chemicals safety (REACH) and consumer product safety.

The book is structured into three parts:

The first part deals with the general concepts of consumer exposure as part of the overall risk analysis framework of risk

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Exposure Assessment and risk
communication. It describes the three
basic features of exposure assessment (i)
the exposure scenario (ii) the exposure
model and (iii) the exposure parameters,
addressing external and internal exposure.
Also, the statistical presentation of data to
characterize populations, in connection

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with variability, uncertainty and quality of information and the presentation of exposure evaluation results is described.

The second part deals with the specific issues of exposure assessment, exposure via food consumption, exposure from use of consumer products, household products, toys, cosmetic products, textiles, pesticides

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and others. This part also covers methods
for acquisition of data for exposure
estimations, including the relevant
information from regulations needed to
perform an accurate exposure assessment.
The third part portrays a prospect for
further needs in the development and
improvement of consumer exposure

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assessment, as well as international
activities and descriptions of the work of
institutions that are involved in exposure
assessment on the regulatory and scientific
level. And conversely, it creates the
rationale for the exposure assessment
details necessary to satisfy regulatory needs
such as derivation of upper limits and risk

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Exposure assessment is one of the four
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This volume provides guidelines for the
exposure assessment of microbiological
hazards in food. It outlines the principles
of exposure assessment as well as the data

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needed and approaches available for
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