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Nota di contenuto	Principles and Practice of Mixtures Toxicology; Foreword; Contents; Preface; List of Contributors; 1 Introduction to Mixtures Toxicology and Risk Assessment; 2 Chemical Mixtures in the Environment: Exposure Assessment; 3 Application of a Relative Potency Factor Approach in the Assessment of Health Risks Associated with Exposures to Mixtures of Dioxin-Like Compounds; 4 Statistical Methods in Risk Assessment of Chemical Mixtures; 5 Modeling Kinetic Interactions of Chemical Mixtures; 6 Toxicodynamic Interactions; 7 Toxicological Interaction Thresholds of Chemical Mixtures 8 Characterization of Toxicoproteomics Maps for Chemical Mixtures Using Information Theoretic Approach9 Pharmacokinetic Mechanisms of Interactions in Chemical Mixtures; 10 Chemical Mixtures and Cumulative Risk Assessment; 11 Application of ATSDR.s Mixtures Guidance for the Toxicity Assessment of Hazardous Waste Sites; 12 Application of Mixture Methodology for Workplace Exposures; 13 Assessing Risk of Drug Combinations; 14 Dermal Chemical Mixtures;

15 Synergy: A Risk Management Perspective; 16 Chemistry, Toxicity, and Health Risk Assessment of Drinking Water Disinfection By-Products
17 Endocrine Active Chemicals 18 Evaluation of Interactions in Chemical Mixtures; 19 Thyroid-Active Environmental Pollutants and Their Interactions on the Hypothalamic-Pituitary-Thyroid Axis; 20 Toxic and Genotoxic Effects of Mixtures of Polycyclic Aromatic Hydrocarbons; 21 Development of In Vitro Models to Assess Toxicity of Engineered Nanomaterials; 22 The Application of Physiologically Based Pharmacokinetics, Bayesian Population PBPK Modeling, and Biochemical Reaction Network Modeling to Chemical Mixture Toxicology; 23 Food Ingredients are Sometimes Mixtures; 24 Biomonitoring
25 Adverse Drug Reactions and Interactions Index

Sommario/riassunto

This first comprehensive treatment of the subject for more than a decade includes the latest research on nanoparticle toxicology. The practical handbook addresses all areas where toxic mixtures are encountered, from environmental via occupational to medical settings, giving special consideration to air and water, and to the specific requirements for study design in mixture toxicology. While no extensive prior knowledge or toxicological experience is required, the practice-oriented case studies and examples in the second part make this the ideal companion for the professional toxicologist in in
