



Human Toxicology of Chemical Mixtures, Second Edition

Harold Zelig

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In this important reference work, Zelig catalogs the known effects of chemical mixtures on the human body and also proposes a framework for understanding and predicting their actions in terms of lipophile (fat soluble) / hydrophile (water soluble) interactions. The author's focus is on illnesses that ensue following exposures to mixtures of chemicals that cannot be attributed to any one component of the mixture.

In the first part the mechanisms of chemical absorption at a molecular and macromolecular level are explained, as well as the body's methods of defending itself against xenobiotic intrusion. Part II examines the sources of the chemicals discussed, looking at air and water pollution, food additives, pharmaceuticals, etc. Part III, which includes numerous case studies, examines specific effects of particular mixtures on particular body systems and organs and presents a theoretical framework for predicting what the effects of uncharacterized mixtures might be. Part IV covers regulatory requirements and the need to adjust recommended exposure levels for products containing mixtures. It also contains recommendations on how to limit exposure to mixtures in the products we use and on how to limit release of mixtures into the environment.

Providing brief summaries of each mixture and its effects, Zelig provides a comprehensive reference, a jumping off point for professionals (with extensive chapter bibliographies) and an introduction to the topic for those studying traditional toxicology.

Addressing many inadequately understood illnesses and conditions such as asthma, infertility and cancer, it will also be of interest to health professionals, environmental scientists and lawyers.

- Presents a theoretical framework for predicting the effects of chemical mixtures

for which no specific data exists (this predictive aspect is important due to the vast number of different potential chemical combinations - far too many to comprehensively catalog).

- A quick and convenient source of hard to come by data on the rapidly developing field of chemical mixtures, for groups including chemists and engineers, toxicologists, health professionals and environmental scientists.
- New and updated material comprises over 30% of this timely new edition, which includes the latest research data alongside an expanded introduction to the science and art of predicting the toxicological properties of chemical mixtures.

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