A long-established reliable reference to the concepts, methodologies, and assessments integral to toxicology.

The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field. With new authors and new chapters that address the advances and developments since the fifth edition, the book presents everything toxicologists and students need to know to understand hazards and mechanisms of toxicity, enabling them to better assess risk.

The book begins with the four basic principles of toxicology—dose matters, people differ, everything transforms, and timing is crucial. The contributors discuss various agents of toxicity, including foodborne, solvents, crop protection chemicals, radiation, and plant and animal toxins. They examine various methods for defining and measuring toxicity in a host of areas, including genetics, carcinogenicity, toxicity in major body systems, and the environment. This new edition contains an expanded glossary reflecting significant changes in the field.

New topics in this edition include:
The importance of dose–response
Systems toxicology
Food safety
The humane use and care of animals
Neurotoxicology

The comprehensive coverage and clear writing style make this volume an invaluable text for students and a one-stop reference for professionals.

Features:
Begins with four basic principles of toxicology: dose matters, people differ, everything transforms, and timing is crucial
Provides practical advice, detailed methods, and protocols for students and working professionals
Presents in-depth discussions of concepts, methodologies, and assessments integral to toxicology
Includes new chapters addressing advances and developments in the field of toxicology—including dose–response, systems toxicology, food safety, the humane use and care of animals, and neurotoxicology
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