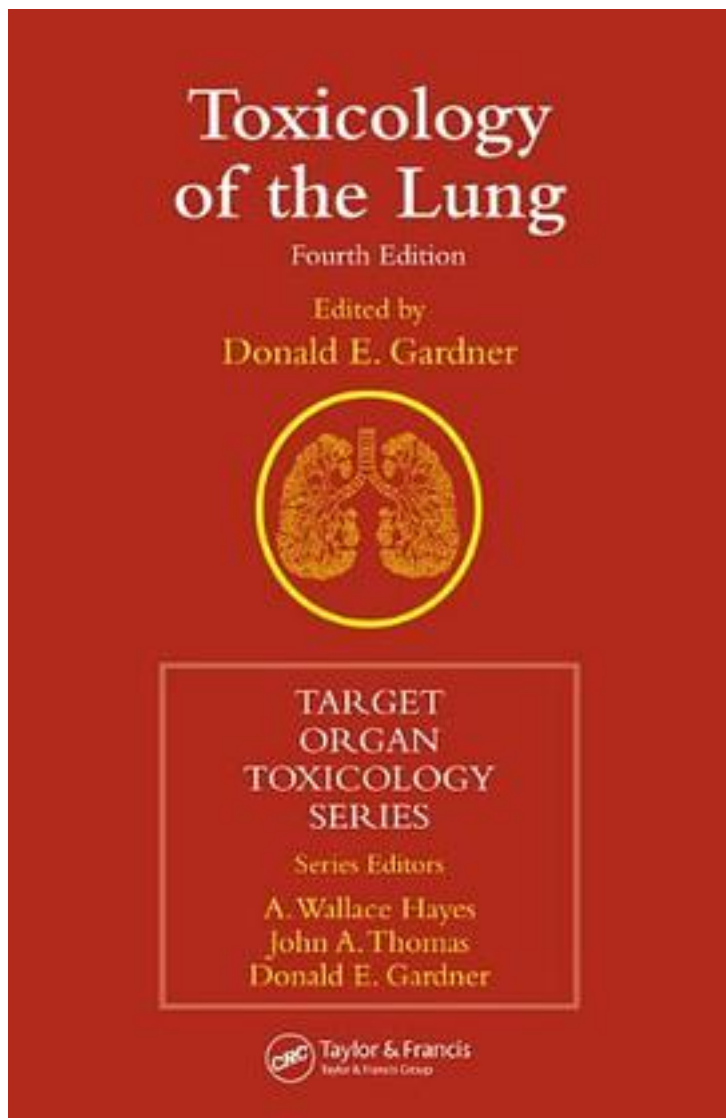


Toxicology of the Lung



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The most up-to-date treatment of inhalation toxicology available, *Toxicology of the Lung*, Fourth Edition examines the subject from a target-organ perspective. Completely revised and updated, the book includes contributions from an entirely new set of authors, each of them a leading international authority in their respective specialties. As with the previous editions, it presents the latest advances in our knowledge of how the lung responds to airborne contaminants. It discusses the assessment of nanomaterials, pulmonary administration of new therapeutics, health effects of inhaled particulate matter from diesel exhaust, and respiratory genomics. The new edition provides insight into current thinking about the critical need for understanding the kinetics and dynamic interactions associated with toxic effects. It explores the appropriateness of recent advances made across disciplines and addresses human clinical testing and emerging technology for using animal and in vitro models to detect adverse effects. The book examines how airborne substances can alter the physiological, biochemical, and morphological functioning of biological systems and covers the latest modeling approaches for predicting deposition and fate of inhaled particles. Illustrating on-going research efforts for delineating the association between airborne substances and systemic effects, the book provides authoritative reviews of selected areas. The editor makes the information accessible to readers who do not have a background in pulmonary physiology without sacrificing the scientific rigor required by those who do. These features make this the ultimate resource on how pollutants affect allergies, infection, and other lung diseases.

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