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Book review

Environmental Regulatory Calculations Handbook, L. Stander, L. Theodore. John Wiley & Sons, Inc., Hoboken, NJ (2008). 593 pp., Price: US\$ 145.00, ISBN: 978-0-471-67171-8

According to the authors, "This book is primarily intended for individuals with environmental regulatory responsibilities and concerns. It is presented in simple, understandable terms that provide the basic fundamentals of the many environmental topics that exist and may exist in the future."

The authors begin with a review of the early history of environmental problems, a review that I think has little relevance to the mathematical treatise that follows. That criticism is not true for the next chapter that in a concise fashion reviews the current environmental regulatory framework. In this section, each major US environmental law is discussed after the authors briefly review the history of the creation of the US EPA, the basis of the US regulatory system, the difference between laws and regulations, and the role of states in environmental law enforcement.

The basics having been covered, Stander and Theodore then pose their problems and solutions thereto for each US Federal environmental law: Clean Air Act; Clean Water Act; Safe Drinking Water

Act; Resource Conservation and Recovery Act; Toxic Substances Control Act; Comprehensive Environmental Response, Compensation and Liability Act; Occupational Safety and Health Act; and Pollution Prevention Act. The problems given in the book are of two types: (1) discussion, i.e., describe air pollution legislation and (2) mathematical, i.e., calculate stack velocity. Each of the foregoing eight chapters has approximately 43 assignments. In total, there are 209 discussion questions and 186 quantitative questions.

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