A Biologic Approach to Environmental Assessment and Epidemiology

Thomas J. Smith, David Kriebel
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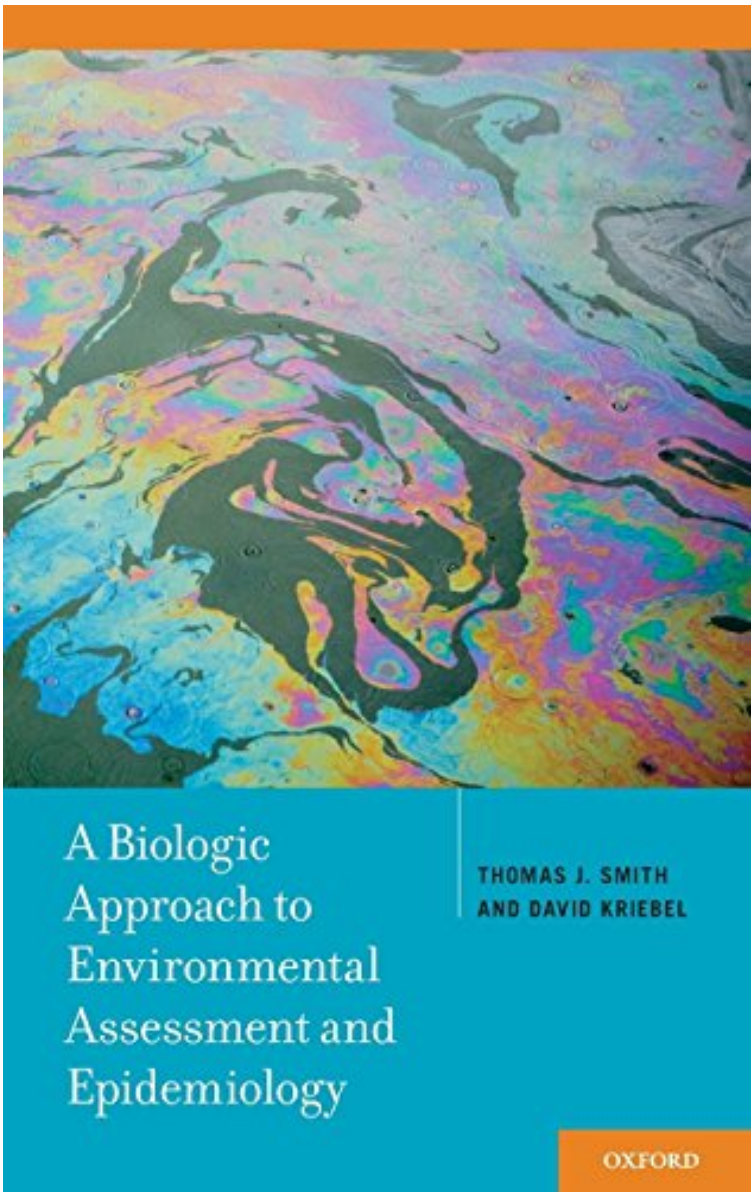

#2464093 in Books Thomas J Smith David Kriebel 2010-07-02Original language:EnglishPDF # 1 6.30 x .90 x 9.30l, 1.65 #File Name: 0195141563448 pagesA Biologic Approach to Environmental Assessment and Epidemiology | File size: 74.Mb

Thomas J. Smith, David Kriebel : A Biologic Approach to Environmental Assessment and Epidemiology before purchasing it in order to gage whether or not it would be worth my time, and all praised A Biologic Approach to Environmental Assessment and Epidemiology:

0 of 0 people found the following review helpful. Three StarsBy MNot a bad reference book.0 of 0 people found the following review helpful. A must read, major contribution to the fieldBy ZimThis takes us beyond the static measure of cumulative exposure to four, easily applicable, dynamic disease process models. This approach exploits biologic knowledge of the underlying physiologic and pathologic processes to model the exposure-response relationship more accurately. This ultimately should lead to the detection of previously undiscovered associations which may prevent disease and reduce environmental hazards. Readable, clear explanations and examples. Easy to understand, schematic illustrations of biologic processes.

Environmental chemical hazards are a highly contentious topic in modern life. Nearly every nation on earth has faced its own environmental crises, and also shares perspectives on the possibility of global catastrophes. Of the many global concerns we face, the environmental issue is unique in many ways. The greatest of these is the fundamental scientific nature of the issue, and the extent to which our opinions are formed based on high-level scientific inquiry and assessment. The two key fields of study on this issue, environmental epidemiology and exposure assessment, are still given separate names because of their separate historical roots and scientific traditions, but are seen increasingly as inseparable aspects of the same basic investigation. In this book, Thomas J. Smith and David Kriebel assert that important advances in the quantification of environmental risks can only come through a true synthesis of the two fields. They have built a common biologic model of exposure, physiologic response, and disease, a synthesis of the various existing models which serves to both simplify and improve the application of environmental epidemiology and exposure assessment to current and future environmental chemical risks.When exposure assessor and epidemiologist agree from the start on the model for their study, the conceptual framework for the study they design and the analyses they carry out are much more likely to yield useful exposure-risk information. An explicit biologic model of the apparent processes linking exposure to disease should form the basis for any study seeking to quantify risk from environmental chemicals.

"This is must reading..." --Doody'sAbout the AuthorThomas J. Smith, Ph.D., CIH, is Professor of Industrial Hygiene at the Harvard School of Public Health.David Kriebel, Sc.D., is Professor of Work Environment at the School of Health and Environment of the University of Massachusetts Lowell.