Handbook of Environmental Engineering Assessment: Strategy, Planning, and Management

Ravi Jain, Lloyd Urban, Harold Balbach, M. Diana Webb
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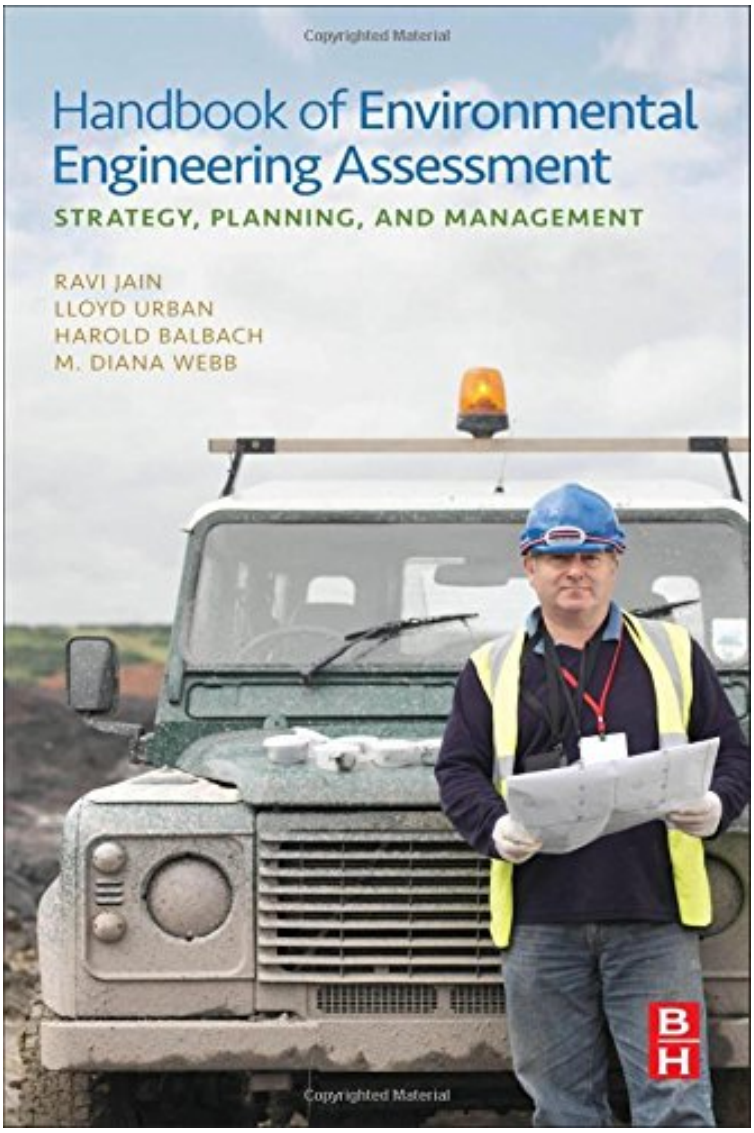

#3113153 in Books Ravi Jain 2012-05-23Original language:EnglishPDF # 1 9.02 x 1.63 x 5.98l, 2.38 #File Name: 0123884446784 pagesHandbook of Environmental Engineering Assessment Strategy Planning and Management | File size: 42.Mb

Ravi Jain, Lloyd Urban, Harold Balbach, M. Diana Webb : Handbook of Environmental Engineering Assessment: Strategy, Planning, and Management before purchasing it in order to gage whether or not it would be worth my time, and all praised Handbook of Environmental Engineering Assessment: Strategy, Planning, and Management:

3 of 3 people found the following review helpful. Assessment Handbook Provides Comprehensive GuideBy LazarusThis review is from: Handbook of Environmental Engineering Assessment: Strategy, Planning, and ManagementThis book provides a wealth of information across a very broad range of environmental assessment topics and considerations. Though environmental assessment is a complex topic, it is presented here in an accessible way; the material is logically ordered, broken into understandable questions and issues, and written in plain English. The text introduces readers to the potentially confusing array of environmental statutes in a context that is useful and not overwhelming, by covering key legal standards which assessors are likely to encounter. The authors provide practical step-by-step advice on how to conduct assessments that meet statutory and policy needs, warning against short-cuts that can lead to delays or legal challenges. They use brief case studies to further explain and illustrate requirements and best practices. This comprehensive text is clearly aimed at environmental assessors and environmental engineers primarily, for whom it provides a handy reference tool. But its broad coverage and clear explanations also make it useful for those (such as analysts and teachers) trying to understand or communicate the multi-dimensional aspects of environmental assessment and compliance.O Funke, PhD1 of 1 people found the following review helpful. Great addition to Environmental Engineering Assessment MethodsBy W. RoperThe Handbook of Environmental Engineering Assessment, Strategy Planning, and Management by Rave Jain and others is an excellent resource for practicing engineers and also for instructional purposes at college level environmental engineering applications. The book contains a very good review of environmental laws and regulations with a particular focus on the various elements and considerations in the national environmental policy act. It includes insights on state environmental policy act's as well as guidance from the Council on environmental quality and judicial reviews. The book also provides examples and guidance on the development of environmental documents and compliance with CEQ regulations including a number of case study discussions. Step-by-step guidance is provided for the development of the various elements and environmental assessment from a planning standpoint as well as environmental assessment methodologies and a discussion of future directions in environmental assessments. Guidelines are also discussed for the process of reviewing environmental impact statements including approaches to systematic review processes for EIS. International aspects of environmental assessment engineering and planning are presented on a global basis including the Asia-Pacific region, Latin America, Canada, Europe and India. The chapter on economic and social impact analysis includes a discussion of economic models social impact assessment methods data collection sources and the important aspect of environmental justice. The importance of public participation in the environmental impact assessment process from its beginning to the major role it has played in more current public policy issues. The book describes the importance of participation in developing regulations, methods for effective public participation programs and the benefits that can come out of well-planned public participation programs. This chapter also includes a discussion of the impact of the digital revolution on public participation and how to leverage the Internet capability to support efforts in public participation. The relationship between the environment and energy is described from the standpoint of energy costs of pollution, fuel alternatives and developments strategies, recycling of materials and other aspects that benefit the energy equation and protect the environment. The last chapter addresses contemporary issues in in environmental assessment to include climate change, acid rain, biodiversity, cumulative impacts, and indirect impacts as well as a number of other subjects. Each chapter concludes with a discussion and study questions that are very helpful in underscoring the learning objectives of the chapter.Overall this is an excellent book that makes an outstanding handbook for the practicing professional. It is also a very good textbook for use in the college classroom for courses related to environmental impact statements and environmental assessment fundamentals. I will be using it in my environmental assessment classes and hazardous waste management classes in the future.1 of 1 people found the following review helpful. National Environmental Policy Act (NEPA)By Berkely ReaderThe Handbook of Environmental Engineering Assessment by Jain et al. is a valuable and unique book that is useful for environmental managers, engineers, environmental advocates, regulators, and students.The Handbook is a unique reference for understanding and complying with the National Environmental Policy Act (NEPA). The book provides step by step guidance for development of NEPA documents including environmental assessments (EA), environmental impact statements (EIS), and findings of no significant impact (FONSI). The book sets a standard for environmental managers and engineers in the development of NEPA documents and is a useful reference for managers of federal projects and consultants involved in the development of NEPA documentation. Given the similarity of state and federal regulation, the book is also useful for compliance state regulations.The Handbook is a one-stop resource for those interested in understanding environmental impact assessment. The book is easy to understand and should be a standard reference for environmental advocates, regulators, industrial managers, and others who review or assess NEPA documents. The book provides concise, step-by-step discussion of the components of well-prepared documents and concisely summarizes the complex environmental laws that govern human activities in the US.The Handbook is well organized and structured for use as a textbook appropriate for advanced under-graduate or graduate-level environmental studies, environmental sciences, environmental policy or environmental engineering programs. Each chapters includes discussion and study questions appropriate for both self-study and development of homework assignments. The chapter reviewing environmental laws is a most concise and informative summary of the subject.

This is one of the most comprehensive books on complex subjects of environmental engineering assessment and planning. Addressing these issues requires an understanding of technical, economic, and policy perspectives; based upon extensive research and practical experience of the authors, these perspectives are thoughtfully and clearly presented. Covered in this book are subjects related to environmental engineering and planning which include environmental laws and regulations, international perspectives on environmental analysis engineering and planning, economic and social impact analysis, public participation, and energy and environmental implications of major public works and private projects. Contemporary issues ranging from climate change to ecorisk and sustainability are covered in a special section as well. Under Contemporary Challenges are environmental issues that have received considerable public support and concern; they include: climate change, acid rain, deforestation, endangered species, biodiversity, ecorisk, cultural resources, and sustainability. For most of these issues, there are scientific agreements and disagreements; there are many uncertainties, thus views differ widely. These topics are discussed in considerable detail. Notwithstanding uncertainties and differing views on such topics, all of this information is put in a policy context such that progress towards addressing these contemporary challenges can be made while consensus on the nature and extent of the problem and resultant solutions are being developed. The book provides considerable information about many timeless issues. These issues range from resources needed for sustaining the quality of life on the planet: air resources to natural resources. Specifically covered are: air, water, land, ecology, sound/noise, human aspects, economics, and resources. For each of these areas, some of the key elements are described so that one can effectively manage complex environmental engineering and planning requirements. Each of the elements are clearly defined and other information, such as how human activities affect the element, source of affects, variable to be measured, how such variables can be measured, data sources, and evaluation and interpretation of data, etc. are provided. Material presented provides a rich source of information so the reader can efficiently and effectively use it to make meaningful environmental engineering, planning, and management decisions.Help with every aspect of analyzing the environmental implications of a project. Complete coverage of current approaches, practices, procedures, documentations, regulations, and issues related to environmental engineering and planning. Step-by-step directions for preparing environmental impact analysis, and environmental reports. Valuable expert advice on international perspectives, public participation, social and environmental impacts. A comprehensive write-up on contemporary issues ranging from climate change to sustainability. A comprehensive description and analysis of timeless issues ranging from air resources to natural resources.

About the AuthorRavi Jain is Dean and Professor of the School of Engineering and Computer Science, University of the Pacific, Stockton, California. He received his B.S. and M.S. degrees in Civil Engineering from California State University, and a Ph.D. in Civil Engineering from Texas Tech. He studied public administration and public policy at Harvard, earning an M.P.A. degree and did additional graduate studies at Massachusetts Institute of Technology (MIT).