



Project Management for Environmental, Construction and Manufacturing Engineers: A Manual for Putting Theory into Practice

By Nolberto Munier



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As a companion to books on project-management theory, this book illustrates, in a down-to-earth, comprehensive style, how to put that theory into practice. In addition to the many examples that illustrate procedures, the book includes over 25 case studies, each one addressing a specific theme. Key topics, such as project selection, negotiations, planning and scheduling, cost and budgeting, project control, human resources, environmental impacts, risk management, and financial evaluation, are discussed, using a step-by-step approach. Beginning at the grassroots level, some cases are solved by hand to illustrate the mechanics of a procedure, while others are solved using advanced computer programs. In this way the reader has a clear idea of the problem, how and when to raise the issue, information needed (and who can provide it), how to solve it by hand, when possible, and also its resolution using the latest informatics tools.



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Editorial Review

Review

From the reviews:

“Munier (Polytechnic Univ. of Valencia, Spain), an experienced engineering project manager, covers project management principles in this book, which is specifically targeted to engineers who are in charge of environmental, construction, or manufacturing projects. ... Each chapter includes a brief synopsis and a list of references relevant to that specific chapter. This book will be useful for an introductory undergraduate course on management of projects in these disciplines Summing Up: Recommended. Upper-division undergraduates and two-year technical program students.” (P. F. Rad, Choice, Vol. 50 (6), February, 2013)

From the Back Cover

As a companion to books on project-management theory, this book illustrates, in a down-to-earth, comprehensive style, how to put that theory into practice. It shows not only what needs to be done, but how to do it. In addition to the many examples that illustrate procedures, the book includes over 25 case studies, each one addressing a specific theme.

Key topics, such as:

project selection

negotiations

planning and scheduling

cost and budgeting

project control

communications

human resources

environmental impacts

risk management

financial evaluation

are discussed in project simulations based on real-life situations from a diversity of fields, using a step-by-step approach.

Beginning at the grassroots level, some cases are solved by hand to illustrate the mechanics of a procedure, while others are solved using advanced computer programs. In this way the reader has a clear idea of the

problem, how and when to raise the issue, information needed (and who can provide it), how to solve it by hand, when possible, and also its resolution using the latest informatics tools.

The author has over 30 years of experience in project management in different countries, working on both large-scale projects with major companies worldwide and with urban/regional planners on local projects. He has written more than 15 books on different facets of engineering, lectured in over 80 technical courses and spoken at numerous international conferences. His engineering experience in large undertakings in such fields as hydro-electricity, mining, the environment, and urban planning provides the reader with a wealth of knowledge on the practical side of project management.

This book will be of interest to students in engineering, professionals in the field of project management and project consultants.

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Julie Chambers:

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