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Project Management For Engineering, Business And Technology



Synopsis

Project Management for Engineering, Business and Technology, 5th edition, addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team building, conflict resolution and stress management. The Systems Development Cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This new edition features:

- Updates throughout to cover the latest developments in project management methodologies
- New examples and 18 new case studies throughout to help students develop their understanding and put principles into practice
- A new chapter on agile project management and lean
- Expanded coverage of program management, stakeholder engagement, buffer management, and managing virtual teams and cultural differences in international projects
- Alignment with PMBOK terms and definitions for ease of use alongside PMI certifications
- Cross-reference to IPMA, APM, and PRINCE2 methodologies
- Extensive instructor support materials, including an Instructor's Manual, PowerPoint slides, answers to chapter review questions, problems and cases, and a test bank of questions.

Taking a technical yet accessible approach, Project Management for Business, Engineering and Technology, 5th edition, is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses as well as for practicing project managers across all industry sectors.

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Customer Reviews

"As a Professor who has taught Project Engineering for the last 14 years, I have also performed large scale Project Engineering throughout my first career (over 20 years) in Aerospace, Defense and Information Technology. When deciding on a textbook for my graduate Project Engineering class, I looked long and hard. I wasn't finding what I was looking for and was going to write my own, until I found Project Management for Engineering, Business and Technology. This is the textbook I would have written. It is robust, complete and easy to follow. The graphics, charts and figures are all very descriptive and real. And my students like the paperback nature of the book. I highly recommend this textbook for anyone teaching Engineering, Business or Technology Project Management/Engineering. I also recommend it as a "keeper" for students who will be guiding projects in the future." Mark Calabrese, University of Central Florida, USA

"The publication of the 5th edition of Project Management for Engineering, Business and Technology by John Nicholas and Herman Steyn is an important milestone in a continuing conversation between the authors and the current and future practitioners of project management around the world. This book has long been a comprehensive but accessible publication that provides valuable insights into the strategic and day-to-day management of projects both large and small. There are numerous publications in this field but Nicholas and Steyn have found the balance between the needs of experienced practitioners looking for ways to improve project outcomes, and the needs of students who are new to the project management field. The concepts are clearly and logically laid out, and the language is appropriate for a wide range of audiences. It continues to be a benchmark in a crowded field of publications offering both practical and strategic insights into the art and craft of project management." Barrie Todhunter, University of Southern Queensland, Australia

"I have been using the earlier editions of this book in my Project Management teaching to working executives of a major engineering company employing close to 40000 people in various types of projects. I have evaluated the current 5th edition of the book from the perspective of (a) a teaching resource (b) study material and (3) as a resource for case study and references. I find that the 5th edition has

been thoroughly revamped and incorporates several relevant resources and presented in a very lucid and structured way. I have absolutely no hesitation in recommending this book as a standard resource for teaching students in a university set up and/or for working executives in a project environment. The book is also a good resource as a study material for certification courses."

Krishna Moorthy, Ex-Dean, Larsen & Toubro Institute of Project Management, India "Project Management for Engineering, Business and Technology is one of the most comprehensive textbooks in the field. Nicholas and Steyn explain the matter in a readable and easy-to-understand way, illustrated with interesting examples. The authors combine the hard matter of project management with relevant behavioural aspects. Overall, a useful work for anyone new to the field or as reference for the more advanced project manager." Martijn Leijten, Delft University of Technology, The Netherlands

"Project management plays a vital role in achieving project objectives. Projects bring change and project management is recognised as the most effective way to managing such change. This book encourages readers to become interested and involved in the change towards renewed project management and management of projects." Benita Zulch, University of the Free State, South Africa

"A very comprehensive text. An excellent mix of materials to enable students to learn techniques and engage in discussion of scenarios." Richard Kamm, University of Bath, UK

Project Management for Business, Engineering and Technology, 5th edition answers a need for improved project management across all industries. First covering the essential background, from origins and philosophy to methodology, the main bulk of the book is dedicated to the concepts and techniques of practical application, including project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project organization and all-important "people" aspects of project leadership, team building, conflict resolution and stress management. The Systems Development Cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program or task force. Focusing on projects as goal oriented systems of interrelated components functioning in a larger environment, the book targets the ultimate purpose of project management to unify and integrate the interests, resources and work efforts of many stakeholders, as well as schedules, budgets, and plans, to accomplish the overall project goal. This new edition features:

- Updates throughout to cover the latest developments in project management methodologies
- New case studies throughout to help students develop their understanding and put principles into practice
- New coverage of lean project management and agile project management

Alignment with PMBOK terms and definitions for ease of use alongside PMI qualifications

Extensive instructor support materials, including PowerPoint slides, exam questions and answers, case studies and links to further reading With most competing project management texts focusing on generic, corporate, business projects, this book includes more case studies, examples and background on engineering and technology projects to put project management into context for subject specialists in these areas and better prepare business students looking to forge management careers in technical industries. Covering business, engineering and technology, and taking a technical yet accessible approach, Project Management for Business, Engineering and Technology, 5th edition is an ideal resource and reference for all advanced undergraduate and graduate students on project management courses and for practicing project managers across all industry sectors.

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