DESCRIPTION

It’s often said that the construction professional has to be a “jack of all trades, and master of all.” This text covers a wide range of subjects, reflecting the breadth of knowledge needed to understand the dynamics of this large and complex industry. This edition includes updated chapters on planning and scheduling, a new chapter addressing linear scheduling methods, material regarding the historical background of construction as a profession, and includes an Instructor Resource of solutions to the end-of-chapter review exercises.

This text has become a standard course text at many universities. The first four editions have enjoyed wide success as an introductory treatment of the subjects which are critical to success in the construction industry. This fifth edition preserves the features that have been most appreciated by its users throughout the years, and adds suggestions provided by instructors and students through formal surveys and informal feedback to the authors.

ABOUT THE AUTHOR

DANIEL W. HALPIN is Professor Emeritus and former head of the Division of Construction Engineering and Management at Purdue University. The author of more than ten books, he is a member of the National Academy of Construction, a recipient of ASCE’s Peurifoy Construction Research Award and the Carroll H. Dunn Award of Excellence from the Construction Industry Institute (CII).
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NEW TO EDITION

• Chapters on planning and scheduling that have been streamlined to provide a smoother presentation.

• A new chapter addresses linear scheduling methods in detail as well as the scheduling impact of resource allocation and resource planning has been added.

• Coverage has been added on the historical background of construction as a profession and a discipline to help the student become excited about the multifaceted nature of realizing great construction projects.
• Addresses the history of construction and the process by which owners procure and contractors execute construction projects

• Features chapters which deal with company organization as well as planning and scheduling

• Covers the four M's of construction: money, machines, manpower, and materials

• Includes monetary concepts such as calculating the cost of money (i.e., issues regarding interest and investment), the impact of taxes, funding of projects, and how contractors manage cash flow during the construction process

• Updates also include chapters discussing safety

• An Instructor Resource provides solutions to the end-of-chapter review exercises

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