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Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Preface to the First Edition; Chapter 1 Introduction; Planning and Scheduling; What Is a Project?; Are Projects Unique?; Project Management Plan.; Project Control; Why Schedule Projects?; The Scheduler; Certification; The Tripod of a Good Scheduling System; Scheduling and Project Management; Chapter 1 Exercises; Chapter 2 Bar (Gantt) Charts; Definition and Introduction; Advantages of Bar Charts; Disadvantages of Bar Charts; Chapter 2 Exercises; Chapter 3 Basic Networks; Definition and Introduction; Arrow Networks; Brief Explanation; The Logic NotationDummy Activities; Redundancies; Node Networks; Lags and Leads; Recommendations for Proper Node Diagram Drawing; Comparison of Arrow and Node Networks; Networks versus Bar Charts; Effective Use of Bar Charts with CPM; Time-Scaled Logic Diagrams; Chapter 3 Exercises; Chapter 4 The Critical Path Method (CPM); Introduction; Steps Required to Schedule a Project; Supplemental Steps; Resource Allocation and Leveling; Beginning-of-Day or End-of-Day Convention; The CPM Explained through Examples; The CPM with Computer Software Programs; The Critical Path; Definitions; Free Float More DefinitionsFloat Check; Node Format; Lags and Leads into CPM

Networks; Lags and Leads in Computer Software; Further Discussion of Float; Effect of Choice of Dates on Cash Flow; Project Schedule "Health Check"; Event Times in Arrow Networks; Effect of the Imposed Finish Date on the Schedule; Discussion of Example 4.7; Logic and Constraints; The "Hub" Concept; The Definition of Critical Path, Revisited; Chapter 4 Exercises; Chapter 5 Precedence Networks; Definition and Introduction; The Four Types of Relationships; Important Comments about the Four Types of Relationships
The Percent Complete Approach; Fast-Track Projects; A Parallel Predecessor?; CPM Calculations for Precedence Diagrams; Interruptible Activities; The Simplistic Approach; General Notes on the Simplistic Approach; Alternative Approach; The Detailed Approach; Definitions; The Equations; Contiguous (Uninterruptible) Activities; Remedy for Interruptible Activities; The Critical Path Revisited; Final Discussion; Chapter 5 Exercises; Chapter 6 Resource Allocation and Resource Leveling; Introduction; The Three Categories of Resources; Labor; Equipment and Materials; What Is Resource Allocation?
Resource Leveling; What Is Resource Leveling?; Why Level Resources?; Do All Resources Have to Be Leveled?; Multiproject Resource Leveling; Assigning Budgets in Computer Scheduling Programs; Leveling Resources in a Project; Discussion of Example 6.3; More Discussion; Important; Resource Leveling from the General Contractor's Perspective; Resource Calendars; Work Space as a Resource; Materials Management; Interesting Comparison; Chapter 6 Exercises; Chapter 7 Schedule Updating and Project Control; Introduction; The Need for Schedule Updating; Project Control Defined; Schedule Updating
What Is a Baseline Schedule?

Sommario/riassunto

Bad scheduling can doom a construction project from the start
Construction Project Scheduling and Control provides a comprehensive examination of the analytical methods used to devise a reasonable, efficient, and successful schedule for construction projects of all sizes. This updated third edition contains new information on building image modeling (BIM) and its relationship to project scheduling and control, as well as thorough coverage of the latest developments in the field. Written by a career construction professional, this informative text introduces students to new concepts in CPM sc
