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Nota di contenuto

Engineering Your Future: The Professional Practice of Engineering; Contents; Preface to the Third Edition; Technical Competency: Necessary but Not Sufficient; Audiences: Students and Practitioners; Organization and Content; Additions and Improvements; This Book and ABET Engineering Accreditation Criteria; This Book and the Body of Knowledge Movement; Acknowledgments; Cited Sources; List of Abbreviations; Chapter 1 : Introduction: Engineering and the Engineer; The Playing Field; Definitions of Engineering; Leading, Managing, and Producing: Deciding, Directing, and Doing
Leading, Managing, and Producing Defined
The Traditional Pyramidal, Segregated Organizational Model; The Shared Responsibility Organizational Model; The Focus of This Book: Managing and Leading; Leading Misconceptions; The Seven Qualities of Effective Leaders; Honesty and Integrity; Vision: Reach and Teach; Strategies and Tactics to Achieve the Vision; Always a Student; Courageous; Calm in a Crisis and Chaos; Creative, Innovative, Collaborative, and Synergistic; The Engineer as Builder; Concluding Thoughts: Common Sense, Common Practice, and Good Habits; Cited Sources; Annotated Bibliography Exercises
Chapter 2 : Leading and Managing: Getting Your Personal House in Order; Start with You; Time Management: But First Roles and Goals; Time is a Resource; Roles, Goals, and Then, and Only Then, Time Management; Time Management: The Great Equalizer; Time Management Tips: The ABCs; A Time Management System; Key Ideas about Time Management; Employment or Graduate School?; Full-Time Graduate Study; Full-Time Employment; Learn From Potential Employers; The New Work Environment: Culture Shock?; No Partial Credit; Little Tolerance for Tardiness; Assignments are Not Graded Schedules are More Complicated
Higher Grooming and Dress Expectations; Teamwork is Standard Operating Procedure; Expect and Embrace Change; The First Few Months of Practice: Make or Break Time; Recognize and Draw on Generic Qualities; Guard Your Reputation; Learn and Respect Administrative Procedures and Structure; Complete Assignments in Accordance with Expectations; Get Things Done; Trim Your Hedge; Keep Your Supervisor Informed; Speak Up and Speak Positively; Dress Appropriately; Hone Communication Ability; Seize Opportunities for You and Your Organization; Choose To Be a Winner
Summing it Up
Managing Personal Professional Assets: Building Individual Equity; Personal Professional Assets; Annual Accounting; Careful Management of Personal Professional Equity; Continuing Education; Involvement in Professional Organizations: Taking and Giving; Licensing; Concluding Thoughts: Getting Your Personal House in Order; Cited Sources; Annotated Bibliography; Exercises; Chapter 3 : Communicating to Make Things Happen; Five Forms of Communication; Three Distinctions between Writing and Speaking; Single-Channel versus Multi-Channel; One-Directional versus Two-Directional Conveying versus Convincing

Sommario/riassunto

Round out your technical engineering abilities with the business know-how you need to succeed Technical competency, the ""hard side"" of engineering and other technical professions, is necessary but not sufficient for success in business. Young engineers must also develop nontechnical or ""soft-side"" competencies like communication, marketing, ethics, business accounting, and law and management in order to fully realize their potential in the workplace. This updated edition of Engineering Your Future is the go-to resource on the nontechnical aspects of professional practice

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Collana	Always learning
Disciplina	658.15
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Nota di contenuto	Cover -- Title Page -- Contents -- Preface -- Green Content -- CHAPTER 1 Introduction to Engineering Economy -- 1.1 Introduction -- 1.2 The Principles of Engineering Economy -- 1.3 Engineering Economy and the Design Process -- 1.4 Using Spreadsheets in Engineering Economic Analysis -- 1.5 Try Your Skills -- 1.6 Summary -- CHAPTER 2 Cost Concepts and Design Economics -- 2.1 Cost Terminology -- 2.2 The General Economic Environment -- 2.3 Cost-Driven Design Optimization -- 2.4 Present Economy Studies -- 2.5 CASE STUDY-The Economics of Daytime Running Lights -- 2.6 Try Your Skills -- 2.7 Summary -- Appendix 2-A Accounting Fundamentals -- CHAPTER 3 Cost-Estimation Techniques -- 3.1 Introduction -- 3.2 An Integrated Approach -- 3.3 Selected Estimating Techniques (Models) -- 3.4 Parametric Cost Estimating -- 3.5 CASE STUDY-Demanufacturing of Computers -- 3.6 Electronic Spreadsheet Modeling: Learning Curve -- 3.7 Try Your Skills -- 3.8 Summary -- CHAPTER 4 The Time Value of Money -- 4.1 Introduction -- 4.2 Simple Interest -- 4.3 Compound Interest -- 4.4 The Concept of Equivalence -- 4.5 Notation and Cash-Flow Diagrams and Tables -- 4.6 Relating Present and Future Equivalent Values of Single Cash Flows -- 4.7 Relating a Uniform Series (Annuity) to Its Present and Future Equivalent Values -- 4.8 Summary of Interest Formulas and Relationships for Discrete Compounding -- 4.9 Deferred Annuities (Uniform Series) -- 4.10 Equivalence Calculations

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Sommario/riassunto

Engineering Economy is intended for use in undergraduate introductory courses in Engineering Economics. Used by engineering students worldwide, this best-selling text provides a sound understanding of the principles, basic concepts, and methodology of engineering economy. Built upon the rich and time-tested teaching materials of earlier editions, it is extensively revised and updated to reflect current trends and issues, with an emphasis on the economics of engineering design throughout. It provides one of the most complete and up-to-date studies of this vitally important field. MyEngineeringLab for Engineering Economy is a total learning package that is designed to improve results through personalized learning. MyEngineeringLab is an online homework, tutorial, and assessment program that truly engages students in learning. It helps students better prepare for class, quizzes, and exams—resulting in better performance in the course—and provides educators a dynamic set of tools for gauging individual and class progress.

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Nota di contenuto	Cover -- Half Title Page -- Title Page -- Copyright -- Contents -- Acknowledgments -- Introduction: Visions of Nature, Science, and Religion -- 1. The Nature of Visions of Nature: Packages to Be Unpacked -- 2. Visions of Nature through Mathematical Lenses -- 3. Between Apes and Angels: At the Borders of Human Nature -- 4. Locating New Visions -- 5. Enduring Metaphysical Impatience? -- 6. God from Nature: Evolution or Emergence? -- 7. Who Needs Emergence? -- 8. Creativity through Emergence: A Vision of Nature and God -- 9. Rereading a Landscape of Atonement on an Aegean Island -- 10. The Vision of Malleable Nature: A Complex Conversation -- 11. Visions of a Source of Wonder -- 12. Nature as Culture: The Example of Animal Behavior and Human Morality -- 13. Environment after Nature: Time for a New Vision -- 14. Should the Word Nature Be Eliminated? -- Afterword: Visualizing Visions and Visioners -- Contributors -- Index.
Sommario/riassunto	Contemporary scholarship has given rise to several different modes of understanding biophysical and human nature, each of which is entangled with related notions of science and religion. Envisioning Nature, Science, and Religion represents the culmination of three years of collaboration by an international group of fourteen natural scientists,

social scientists, humanists, and theologians. The result is an intellectually stimulating volume that explores how the ideas of nature pertain to science and religion. Editor James D. Proctor has gathered sixteen in-depth essays, each of which examines and compares different aspects of five central metaphors or "visions" of biophysical and human nature. These visions are evolutionary nature, emergent nature, malleable nature, nature as sacred, and nature as culture. The book's diverse contributors offer a wide variety of unique perspectives on these five visions, spanning the intellectual spectrum and proposing important and often startling implications for religion and science alike. Throughout the essays, the authors do a great deal of cross-referencing and engaging each other's ideas, creating a cohesive dialogue on the visions of nature. *Envisioning Nature, Science, and Religion* offers a blend of scholarly rigor and readable prose that will be appreciated by anyone engaged in the fields of religion, philosophy, and the natural sciences.
