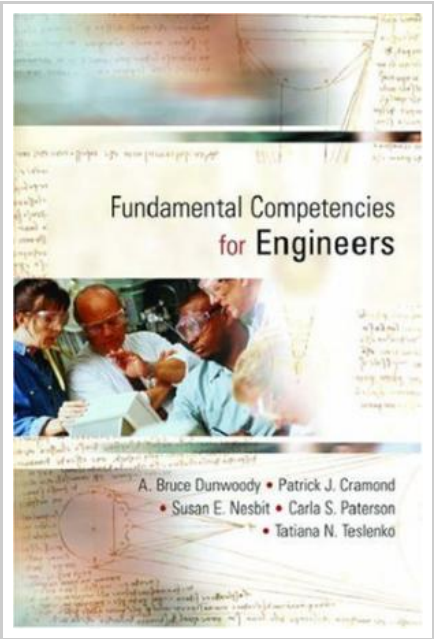


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Fundamental Competencies for Engineers

By Dunwoody, A. Bruce; Cramond, Patrick J.; Nesbit, Susan; Paterson, Carla; Teslenko, Tatiana

Oxford University Press, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: List of Figures List of Tables Preface 1. Introducing a Conceptual Model: The Brunel Group 1.1. Company Background 1.2. Competencies 1.3. Projects 1.3.1. Ore Slurry Pipeline 1.3.2. Green Building 1.3.3. Run-of-the-River Hydroelectric Power Plant Part I: Respecting Others 2. Acting Ethically 2.1. Introduction 2.2. Engineering Ethics 2.3. The Expansion of Engineering Ethics 2.4. Micro-Ethical Issues 2.4.1. Honesty 2.4.2. Conflict of Interest 2.4.3 2.5. Macro-Ethical Issues 2.5.1. Sustainable Development 2.5.2. New Technologies 2.6. Exercises 2.7. References 3. Working on a Team 3.1. Introduction 3.2. A New Paradigm 3.3. What Is a Team? 3.4. Team Development 3.5. Team Roles 3.6. Team Diversity 3.7. Managing Conflict 3.7.1. Competing 3.7.2. Accommodating 3.7.3. Sharing 3.7.4. Avoiding 3.7.5. Collaborating 3.8. Exercises 3.9. References Part II: Communicating Effectively 4. Communicating: Principles 4.1. Communicating as an Engineer 4.2. Informative and Persuasive Communication 4.3. The Communication Process 4.4. Purpose 4.5. Audience 4.6. Content and Organization 4.7. Style 4.7.1. Clarity and Conciseness 4.7.2. Cohesiveness and Completeness 4.7.3. Correctness and Accuracy 4.7.4. Tone 4.8. Document Design and Format 4.9. Exercises 4.10. References 5. Communicating: Applications 5.1. Engineering Documentation 5.1.1. Memos and Letters 5.1.2....

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