Record Nr. UNINA9910455086803321 Real options in engineering design, operations, and management // **Titolo** edited by Harriet Black Nembhard, Mehmet Aktan Pubbl/distr/stampa Boca Raton:,: CRC Press,, 2010 **ISBN** 0-429-14181-5 1-282-31211-1 1-4200-7170-X 9786612312113 Descrizione fisica 1 online resource (258 p.) Altri autori (Persone) NembhardHarriet Black AktanMehmet 620 Disciplina 620.0042 620/.0042 Soggetti Engineering design - Management Operations research Real options (Finance) Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Front cover; Contents; Preface; Editors; Contributors; Chapter 1. Nota di contenuto Introduction; Chapter 2. Real Options in Practice; Chapter 3. Origins of Real Options in Engineering; Chapter 4. Real Options in Manufacturing Operations: Chapter 5. Real Options Valuation for Quality Improvement: Chapter 6. Real Options in Outsourcing; Chapter 7. Barriers to Real Options Adoption and Use in Architecture, Engineering, and Construction Project Management Practice; Chapter 8. Identifying Real Options to Improve the Design of Engineering Systems Chapter 9. Real Options in Underground Mining Systems Planning and DesignChapter 10. Real Options in Engineering Systems Design: Chapter 11. Real Options Model for Workforce Cross-Training; Chapter 12. Real Options Design for Sustainable Product Quality Management;

Chapter 13. Real Options in Nanotechnology R&D; Chapter 14. Real Options-Based Analysis in Pharmaceutical Partnerships for Research

## Sommario/riassunto

and Development; Chapter 15. Hands-On Applications: Real Option Super Lattice Solver Software; Index; Back cover

Given that engineering flexibility can potentially provide a competitive advantage, the question then becomes: Precisely how valuable is this flexibility? However, traditional methods often fail to accurately capture the economic value of investments in an environment of widespread uncertainty and rapid change. The real options method represents the new state-of-the-art technique for valuation and management of strategic investments, enabling corporate decision-makers to leverage uncertainty and limit downside risk. Real Options in Engineering Design, Operations, and M