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Autore	NICOLESCU, George Constantin
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Descrizione fisica	1 online resource (183 p.)
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Nota di contenuto	Cover; Mechanical Engineering Education; Title Page; Copyright Page; Table of Contents; Preface; Chapter 1. Quality Assurance in Greek HEIs: Convergence or Divergence with European Models?; 1.1. Introduction; 1.2. Definitions and fundamentals; 1.3. Quality management models in HE; 1.3.1. Overview; 1.3.2. Implementation of ISO 9001 in HEIs; 1.3.3. Implementation of EFQM model in HEIs; 1.4. European focus on quality in HE: a historical perspective; 1.4.1. Historical perspective; 1.4.1.1. Policy and procedures for quality assurance 1.4.1.2. Approval, monitoring and periodic review of programs and awards1.4.1.3. Assessment of students; 1.4.1.4. Quality assurance of teaching staff; 1.4.1.5. Learning resources and student support; 1.4.1.6. Information systems; 1.4.1.7. Public information; 1.4.2. ESG standards versus typical quality systems; 1.4.3. Accreditation of engineering education; 1.5. Quality assurance in Greece: a long and winding road; 1.5.1. Higher education in Greece; 1.5.2. Greek HEI quality assurance system; 1.5.3. Accreditation of higher engineering education in Greece 1.5.4. Selected cases on QA applications in Greek (engineering) HEIs1.6. Bibliography; Chapter 2. Mechatronics Education; 2.1. Introduction; 2.2. A brief history of mechatronics; 2.2.1. History of mechanical engineering; 2.2.2. History of electronics engineering; 2.2.3. Growth of mechatronics; 2.3. Definitions and scope of mechatronics; 2.4. Examples of mechatronic products; 2.5. Review of literature in the area of mechatronics education; 2.6. Common doubts regarding the discipline of mechatronics; 2.7. Characteristics of mechatronics education 2.8. Incorporating mechatronics in the course structure of undergraduate students2.9. Mechatronics for postgraduate students; 2.10. Planning of a mechatronics program at postgraduate and undergraduate level; 2.11. Some examples of mechatronics projects; 2.11.1. Design and fabrication of a mechatronic wheelchair; 2.11.2. Automatic gear changing system for cars; 2.11.3. Design and fabrication of robots; 2.11.4. Design and fabrication of an electronic cam; 2.12. Conclusion; 2.13. Bibliography Chapter 3. Mechatronics Educational System Using Multiple Mobile Robots with Behavior-Based Control Approach3.1. Introduction; 3.2. Mechatronics education subsystem I; 3.2.1. Hardware of mechatronics educational subsystem I; 3.2.2. Basic dialog for students' experiment; 3.3. Mechatronics educational subsystem II; 3.3.1. Hardware of mechatronics educational subsystem II; 3.3.2. Basic dialog for students' experiment; 3.4. Mechatronics educational subsystem III; 3.4.1. Mobile robot with three wheels; 3.4.2. Network-based multiple mobile robot system 3.4.3. Subsumption control architecture implemented on supervisory server
Sommario/riassunto	Mechanical Engineering is defined nowadays as a discipline "which involves the application of principles of physics, design, manufacturing and maintenance of mechanical systems". Recently, mechanical engineering has also focused on some cutting-edge subjects such as nanomechanics and nanotechnology, mechatronics and robotics, computational mechanics, biomechanics, alternative energies, as well as aspects related to sustainable mechanical engineering.This book covers mechanical engineering higher education with a particular emphasis on quality assurance and the improvement of academic