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Autore	Onwubolu Godfrey C
Titolo	Mechatronics [[electronic resource] ] : principles and applications // Godfrey C. Onwubolu
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Soggetti	Mechatronics Mechanical engineering
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Mechatronics; Principles and Applications; Mechatronics; Principles and Applications; Contents; Preface; Acknowledgments; Chapter 1: Introduction to mechatronics; 1.1 Historical perspective; 1.2 Key elements of a mechatronic system; 1.3 Some examples of mechatronic systems; Further reading; Problems; Chapter 2: Electrical components and circuits; 2.1 Introduction; 2.2 Electrical components; 2.3 Resistive circuits; 2.4 Sinusoidal sources and complex impedance; Problems; Further reading; Chapter 3: Semiconductor electronic devices; 3.1 Introduction; 3.2 Covalent bonds and doping materials 3.3 The p-n junction and the diode effect 3.4 The Zener diode; 3.5 Power supplies; 3.6 Active components; Problems; Further reading; Chapter 4: Digital electronics; 4.1 Introduction; 4.2 Number systems; 4.3 Combinational logic design using truth tables; 4.4 Karnaugh maps and logic design; 4.5 Combinational logic modules; 4.6 Timing diagrams; 4.7 Sequential logic components; 4.8 Sequential logic design; 4.9 Applications of flip-flops; Problems; Further reading; Chapter 5: Analog electronics; 5.1 Introduction; 5.2 Amplifiers; 5.3 The ideal operational amplifier model; 5.4 The inverting amplifier

5.5 The non-inverting amplifier 5.6 The unity-gain buffer; 5.7 The summing amplifier; 5.8 The difference amplifier; 5.9 The instrumentation amplifier; 5.10 The integrator amplifier; 5.11 The differentiator amplifier; 5.12 The comparator; 5.13 The sample and hold amplifier; 5.14 Active filters; Problems; Further reading; Chapter 6: Microcomputers and microcontrollers; 6.1 Introduction; 6.2 Microcontrollers; 6.3 The PIC16F84 microcontroller; 6.4 Programming a PIC using assembly language; 6.5 Programming a PIC using C; 6.6 Interfacing common PIC peripherals: the PIC millennium board 6.7 The PIC16F877 microcontroller 6.8 Interfacing to the PIC; 6.9 Communicating with the PIC during programming; Problems; Further reading; Chapter 7: Data acquisition; 7.1 Introduction; 7.2 Sampling and aliasing; 7.3 Quantization theory; 7.4 Digital-to-analog conversion hardware; 7.5 Analog-to-digital conversion hardware; Problems; Further reading; Chapter 8: Sensors; 8.1 Introduction; 8.2 Distance sensors; 8.3 Movement sensors; 8.4 Proximity sensors; 8.5 Electrical strain and stress measurement; 8.6 Force measurement; 8.7 Time of flight sensors; 8.8 Binary force sensors  
8.9 Temperature measurement 8.10 Pressure measurement; Problems; Further reading; Internet resources; Chapter 9: Electrical actuator systems; 9.1 Introduction; 9.2 Moving-iron transducers; 9.3 Solenoids; 9.4 Relays; 9.5 Electric motors; 9.6 Direct current motors; 9.7 Dynamic model and control of d.c. motors; 9.8 The servo motor; 9.9 The stepper motor; 9.10 Motor selection; Problems; Further reading; Internet resources; Chapter 10: Mechanical actuator systems; 10.1 Hydraulic and pneumatic systems; 10.2 Mechanical elements; 10.3 Kinematic chains; 10.4 Cam mechanisms; 10.5 Gears  
10.6 Ratchet mechanisms

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#### Sommario/riassunto

Mechatronics is a core subject for engineers, combining elements of mechanical and electronic engineering into the development of computer-controlled mechanical devices such as DVD players or anti-lock braking systems. This book is the most comprehensive text available for both mechanical and electrical engineering students and will enable them to engage fully with all stages of mechatronic system design. It offers broader and more integrated coverage than other books in the field with practical examples, case studies and exercises throughout and an Instructor's Manual. A further key feature

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2. Record Nr.	UNIORUON00251717
Autore	PARK BYENG-SEN, Minje
Titolo	Korean printing: From its origins to 1910 / Minje Park Byeng-Sen
Pubbl/distr/stampa	Seoul, : Jimoondang, 2003
ISBN	89-88095-70-7
Descrizione fisica	XIII, 226 p. : ill. ; 23 cm
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Soggetti	COREA - ARTI DELLA STAMPA - STORIA
Lingua di pubblicazione	Inglese
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3. Record Nr.	UNINA9910845500603321
Autore	Goharian Nazli
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Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031560699 3031560698
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (XXVIII, 508 p. 89 illus., 84 illus. in color.)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14612
Disciplina	025.04
Soggetti	Natural language processing (Computer science) Machine learning Information storage and retrieval systems Database management Data mining Natural Language Processing (NLP) Machine Learning Information Storage and Retrieval Database Management System Data Mining and Knowledge Discovery Recuperació de la informació Congressos

## Llibres electrònics

Lingua di pubblicazione	Inglese
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Nota di contenuto	information retrieval -- retrieval models and architectures -- classification -- query processing and ranking -- efficiency and scalability -- deep learning and neural models -- natural language processing -- graph models -- web search -- recommender systems -- web and social media apps -- professional and domain-specific search -- novel interfaces to search tools -- intelligent search -- conversational agents -- evaluation retrieval systems -- bias -- ethics -- fake news and hate speech.
Sommario/riassunto	The six-volume set LNCS 14608, 14609, 14609, 14610, 14611, 14612 and 14613 constitutes the refereed proceedings of the 46th European Conference on IR Research, ECIR 2024, held in Glasgow, UK, during March 24–28, 2024. The 57 full papers, 18 finding papers, 36 short papers, 26 IR4Good papers, 18 demonstration papers, 9 reproducibility papers, 8 doctoral consortium papers, and 15 invited CLEF papers were carefully reviewed and selected from 578 submissions. The accepted papers cover the state of the art in information retrieval focusing on user aspects, system and foundational aspects, machine learning, applications, evaluation, new social and technical challenges, and other topics of direct or indirect relevance to search. .