

1. Record Nr.	UNINA9910450509103321
Autore	Keynes R. D.
Titolo	Nerve and muscle // R.D. Keynes and D.J. Aidley [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2001
ISBN	1-107-12281-3 1-280-16048-9 9786610160488 0-511-81187-X 0-511-06337-7 1-139-14706-4 0-511-11938-0 0-511-05704-0 0-511-33006-5 0-511-07183-3
Edizione	[Third edition.]
Descrizione fisica	1 online resource (ix, 179 pages) : digital, PDF file(s)
Collana	Studies in biology
Disciplina	573.7/528
Soggetti	Myoneural junction Neuromuscular transmission Muscle contraction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. [168]-174) and index.
Nota di contenuto	Cover; Half-title; Series-title; Title; Copyright; Contents; Preface; Publishers note; 1 Structural organization of the nervous system; 2 Resting and action potentials; 3 The ionic permeability of the nerve membrane; 4 Membrane permeability changes during excitation; 5 Voltage-gated ion channels; 6 Cable theory and saltatory conduction; 7 Neuromuscular transmission; 8 Synaptic transmission in the nervous system; 9 Skeletal muscles; 10 The mechanism of contraction in skeletal muscle; 11 Non-skeletal muscles; Further reading; References; Index
Sommario/riassunto	An understanding of the physiology and function of nerve and muscle is fundamental to our knowledge of how the human body and the bodies of other animals function. In the third edition of this highly

readable and concise introductory textbook, the authors begin with a discussion of the nature of nerve impulses as electrical events. They go on to consider communication between nerve cells via synaptic transmission, and finally discuss the nature of muscular contraction, relating muscle cellular structure to contractile function. This is a subject that continues to generate exciting discoveries and this edition includes new material that reflects this, including some of the experimental evidence. The reader will find up-to-date detail of the molecular structure of ion channels and the molecular basis of muscular contraction. Nerve and Muscle is essential reading for all students taking university courses in neurobiology, physiology, cell biology and preclinical medicine.

2. Record Nr.	UNINA9910983479503321
Autore	Gunjan Vinit Kumar
Titolo	Cybernetics, Human Cognition, and Machine Learning in Communicative Applications / / edited by Vinit Kumar Gunjan, Sabrina Senatore, Amit Kumar
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819785339 9819785332
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (481 pages)
Collana	Cognitive Science and Technology, , 2195-3996
Altri autori (Persone)	SenatoreSabrina KumarAmit
Disciplina	006.31
Soggetti	Computational intelligence Neural networks (Computer science) Computational neuroscience Artificial intelligence Quantitative research Machine learning Computational Intelligence Mathematical Models of Cognitive Processes and Neural Networks Computational Neuroscience Artificial Intelligence Data Analysis and Big Data Machine Learning
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction to Cybernetics, Cognition, and Machine Learning -- 2. Foundations of Cybernetics -- 3. Cognition and Cognitive Systems -- 4. Introduction to Machine Learning -- 5. Cybernetics and Machine Learning Integration.
Sommario/riassunto	<p>This book presents the fascinating intersection of human cognition and artificial intelligence. Written by leading experts in the fields of cybernetics, cognitive science, and machine learning, this book seeks to bridge the gap between these disciplines and explores the synergies that emerge when humans and machines work together. The book examines the challenges posed by biased data, lack of transparency, and the "black box" nature of some machine learning algorithms. It proposes novel ways to address these issues and foster greater trust and accountability in AI systems. Drawing on cutting-edge research and real-world case studies, it presents a comprehensive and forward-looking perspective on the future of AI and its impact on society. In conclusion, this book offers a compelling exploration of the synergy between human cognition and machine learning, providing insights that are relevant to scholars, researchers, policymakers, and anyone interested in the transformative potential of artificial intelligence.</p>