1. Record Nr. UNINA9910554278903321

Autore	Angermann Anne
Titolo	MATLAB – Simulink – Stateflow : Grundlagen, Toolboxen, Beispiele / / Anne Angermann, Michael Beuschel, Martin Rau, Ulrich Wohlfarth
Pubbl/distr/stampa	München ; ; Wien : , : De Gruyter Oldenbourg, , [2020] ©2021
ISBN	9783110636420 3110636425
Edizione	[10., aktual. Aufl.]
Descrizione fisica	1 online resource (XIV, 559 p.)
Collana	De Gruyter Studium
Classificazione	ST 601
Disciplina	510.285/53
Soggetti	Technology & Engineering / Electrical
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Frontmatter -- Vorwort zur zehnten Auflage -- Vorwort zur ersten Auflage -- Inhaltsverzeichnis -- 1. Einfuhrung -- 2. Matlab Grundlagen -- 3. Eingabe und Ausgabe in MATLAB -- 4. Differentialgleichungen in MATLAB -- 5. Regelungstechnische Funktionen – Control System Toolbox -- 6. Signalverarbeitung – Signal Processing Toolbox -- 7. Optimierung – Optimization Toolbox -- 8. Simulink Grundlagen -- 9. Lineare und nichtlineare Systeme in Simulink -- 10. Abtastsysteme in Simulink -- 11. Regelkreise in Simulink -- 12. Stateflow -- Symbolverzeichnis -- Literaturverzeichnis -- Index
Sommario/riassunto	Die zehnte Auflage des erfolgreichen Lehrbuchs stellt eine kompakte Einführung in MATLAB (Version 2019b) und die grafischen Erweiterungen Simulink und Stateflow dar. Hierauf aufbauend werden die wichtigsten Erweiterungspakete behandelt. Die Software wird anhand prägnanter Beispiele aus Mathematik, Physik, Elektrotechnik und Mechatronik erläutert. Zahlreiche Übungsaufgaben, die zum Download bereit stehen, ermöglichen die Vertiefung des Inhalts. The tenth edition of the successful textbook presents a compact introduction to MATLAB (Version 2019b) and the graphical extensions Simulink and Stateflow. Building on this material, the textbook covers the most important extension packages. The software is explained using incisive examples from mathematics, physics, electrical engineering, and mechatronics. Numerous practice exercises available

for download serve to amplify the content.

2. Record Nr. UNINA9910953581403321

Titolo	Systematics and the origin of species : on Ernst Mayr's 100th anniversary / / Jody Hey, Walter M. Fitch, and Francisco Ayasla, editors
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, c2005
ISBN	9786612083198 9780309165105 0309165105 9781282083196 1282083198 9780309547604 0309547601
Edizione	[1st ed.]
Descrizione fisica	xiii, 367 p
Altri autori (Persone)	MayrErnst <1904-2005.> HeyJody FitchWalter M. <1929-2011.> AyalaFrancisco Jose <1934->
Disciplina	576.8/6
Soggetti	Species Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	FrontMatter -- Preface -- Contents -- 1 Introductory Essay: Systematics and the Future of Biology--EDWARD O. WILSON -- Part I-- THE ORIGINS OF SPECIES BARRIERS -- 2 The Genetic Basis of Reproductive Isolation: Insights from Drosophila--H. ALLEN ORR -- 3 Inter-Locus Antagonistic Coevolution as an Engine of Speciation: Assessment with Hemiclonal Analysis--WILLIAM R. RICE, JODELL E. LINDER, URBAN FRIBERG, TIMOTHY A. LEW, EDWARD H. MORROW, AND ANDREW D. STEWART -- 4 Chromosome Speciation: Humans, Drosophila, and Mosquitoes--FRANCISCO J. AYALA AND MARIO

COLUZZI -- 5 Developmental Plasticity and the Origin of Species Differences--MARY JANE WEST-EBERHARD -- Part II--DISCERNING RECENT DIVERGENCE -- 6 Speciation in Birds: Genes, Geography, and Sexual Selection--SCOTT V. EDWARDS, SARAH B. KINGAN, JENNIFER D. CALKINS, CHRISTOPHER N. BALAKRISHNAN, W. BRYAN JENNINGS, WILLIE J. SWANSON, AND MICHAEL D. SORENSON -- 7 Critical Review of Host Specificity and Its Coevolutionary Implications in the Fig/Fig-Wasp Mutualism--CARLOS A. MACHADO, NANCY ROBBINS, M. THOMAS P. GILBERT, AND EDWARD ALLEN HERRE -- 8 Evolutionary Animation: How Do Molecular Phylogenies Compare to Mayr's Reconstruction of Speciation Patterns in the Sea?--STEPHEN R. PALUMBI AND H. A. LESSIOS -- 9 Mayr, Dobzhansky, and Bush and the Complexities of Sympatric Speciation in Rhagoletis--JEFFREY L. FEDER, XIANFA XIE, JUAN RULL, SEBASTIAN VELEZ, ANDREW FORBES, BRIAN LEUNG, HATTIE DAMBROSKI, KENNETH E. FILCHAK, AND MARTIN ALUJA -- 10 On the Origin of Lake Malawi Cichlid Species: A Population Genetic Analysis of Divergence--YONG-JIN WON, ARJUN SIVASUNDAR, YONG WANG, AND JODY HEY -- Part III--THE NATURE OF SPECIES AND THE MEANING OF "SPECIES".
11 A Multidimensional Approach for Detecting Species Patterns in Malagasy Vertebrates--ANNE D. YODER, LINK E. OLSON, CAROL HANLEY, KELLIE L. HECKMAN, RODIN RASOLOARISON, AMY L. RUSSELL, JULIE RANIVO, VOAHANGY SOARIMALALA, K. PRAVEEN KARANTH, ACH -- 12 Examining Bacterial Species Under the Specter of Gene Transfer and Exchange--HOWARD OCHMAN, EMMANUELLE LERAT, AND VINCENT DAUBIN -- 13 Ernst Mayr and the Modern Concept of Species--KEVIN DE QUEIROZ -- Part IV--GENOMIC APPROACHES AND NEW INSIGHTS ON DIVERSITY -- 14 Decoding the Genomic Tree of Life--ANNE B. SIMONSON, JACQUELINE A. SERVIN, RYAN G. SKOPHAMMER, CRAIG W. HERBOLD, MARIA C. RIVERA, AND JAMES A. LAKE -- 15 Prospects for Identifying Functional Variation Across the Genome--STUART J. MACDONALD AND ANTHONY D. LONG -- 16 Genetics and Genomics of Drosophila Mating Behavior--TRUDY F. C. MACKAY, STEFANIE L. HEINSOHN, RICHARD F. LYMAN, AMANDA J. MOEHRING, THEODORE J. MORGAN, AND STEPHANIE M. ROLLMANN -- 17 Genomes, Phylogeny, and Evolutionary Systems Biology--MÓNICA MEDINA -- Index.

Sommario/riassunto

In December 2004, the National Academy of Sciences sponsored a colloquium on oeSystematics and the Origin of Species to celebrate Ernst Mayr (TM)s 100th anniversary and to explore current knowledge concerning the origin of species. In 1942, Ernst Mayr, one of the twentieth century (TM)s greatest scientists, published Systematics and the Origin of Species , a seminal book of the modern theory of evolution, where he advanced the significance of population variation in the understanding of evolutionary process and the origin of new species. Mayr formulated the transition from Linnaeus (TM)s static species concept to the dynamic species concept of the modern theory of evolution and emphasized the species as a community of populations, the role of reproductive isolation, and the ecological interactions between species. In addition to a preceding essay by Edward O. Wilson, this book includes the 16 papers presented by distinguished evolutionists at the colloquium. The papers are organized into sections covering the origins of species barriers, the processes of species divergence, the nature of species, the meaning of oespecies, and genomic approaches for understanding diversity and speciation.