

1. Record Nr.	UNISA996213651803316
Autore	Shchepakina Elena
Titolo	Singular Perturbations [[electronic resource]] : Introduction to System Order Reduction Methods with Applications / / by Elena Shchepakina, Vladimir Sobolev, Michael P. Mortell
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-09570-6
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XIII, 212 p. 50 illus.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2114
Disciplina	515.42
Soggetti	Differential equations Dynamics Ergodic theory Mathematical physics Biomathematics Applied mathematics Engineering mathematics Thermodynamics Heat engineering Heat transfer Mass transfer Ordinary Differential Equations Dynamical Systems and Ergodic Theory Mathematical Applications in the Physical Sciences Mathematical and Computational Biology Mathematical and Computational Engineering Engineering Thermodynamics, Heat and Mass Transfer
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Introduction -- Slow Integral Manifolds -- The Book of Numbers -- Representations of Slow Integral Manifolds -- Singular Singularly Perturbed Systems -- Reduction Methods for Chemical Systems --

## Sommario/riassunto

These lecture notes provide a fresh approach to investigating singularly perturbed systems using asymptotic and geometrical techniques. It gives many examples and step-by-step techniques, which will help beginners move to a more advanced level. Singularly perturbed systems appear naturally in the modelling of many processes that are characterized by slow and fast motions simultaneously, for example, in fluid dynamics and nonlinear mechanics. This book's approach consists in separating out the slow motions of the system under investigation. The result is a reduced differential system of lesser order. However, it inherits the essential elements of the qualitative behaviour of the original system. Singular Perturbations differs from other literature on the subject due to its methods and wide range of applications. It is a valuable reference for specialists in the areas of applied mathematics, engineering, physics, biology, as well as advanced undergraduates for the earlier parts of the book, and graduate students for the later chapters.

2. Record Nr.	UNINA9910962703803321
Autore	Fitter Alastair
Titolo	Environmental physiology of plants / / Alastair Fitter, Robert Hay
Pubbl/distr/stampa	San Diego, Calif., : Academic Press, c2002
ISBN	1-281-01876-7 9786611018764 0-08-054981-0
Edizione	[3rd ed.]
Descrizione fisica	1 online resource (396 p.)
Altri autori (Persone)	HayRobert K. M. <1946->
Disciplina	571.2
Soggetti	Plant ecophysiology Plant ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [313]-345).
Nota di contenuto	Front Cover; Environmental Physiology of Plants; Copyright Page; Preface to the Third Edition; Acknowledgements; Dedication; Table of

Contents; Chapter 1. Introduction; 1. Plant growth and development; 2. The influence of the environment; 3. Evolution of adaptation; 4. Comparative ecology and phylogeny; Part I: The Acquisition of Resources; Chapter 2. Energy and Carbon; 1. Introduction; 2. The radiation environment; 3. Effects of spectral distribution of radiation on plants; 4. Effects of irradiance on plants; 5. Responses to elevated carbon dioxide concentrations

Chapter 3. Mineral nutrients 1. Introduction; 2. Nutrients in the soil system; 3. Physiology of ion uptake; 4. Morphological responses; 5. Soil micro-organisms; 6. General patterns of response to soil nutrients; Chapter 4. Water; 1. Properties of water; 2. The water relations of plants and soils; 3. Adaptations favouring germination and seedling establishment in dry environments; 4. Adaptations favouring survival and reproduction under conditions of water shortage; 5. Some special problems in tree/water relations; Part II: Responses to Environmental Stress; Chapter 5. Temperature

1. The temperature relations of plants 2. Plant adaptation and resistance to low temperature; 3. The survival of plants exposed to high temperatures; 4. Fire; Chapter 6. Toxicity; 1. The nature of toxicity; 2. Toxic environments; 3. The influence of toxins on plants; 4. Resistance to toxicity; 5. Phytoremediation: biotechnology to detoxify soils; 6. The origin of resistance: the genetic basis; Chapter 7. An Ecological Perspective; 1. The individual plant; 2. Interactions among plants; 3. Interactions between plants and other organisms; 4. Strategies; 5. Dynamics; References; Name Index

Species Index Subject Index

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#### Sommario/riassunto

This is the third edition of an established and successful university textbook. The original structure and philosophy of the book continue in this new edition, providing a genuine synthesis of modern ecological and physiological thinking, while entirely updating the detailed content. New features include a fresh, unified treatment of toxicity, emphasizing common features of plant response to ionic, gaseous, and other toxins, explicit treatment of issues relating to global change, and a section on the role of fire in plant physiology and communities. The illustrations in the text are improved

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3. Record Nr.	UNICAMPANIAVAN00254676
Titolo	Seminar on Differential Equations and Dynamical Systems : Seminar lectures at the University of Maryland in August 1967 / Edited by G. Stephen Jones
Pubbl/distr/stampa	Berlin, : Springer, 1968
Descrizione fisica	viii, 108 p. : ill. ; 24 cm
Soggetti	00B25 - Proceedings of conferences of miscellaneous specific interest [MSC 2020] 34-XX - Ordinary differential equations [MSC 2020] 35-XX - Partial differential equations [MSC 2020] 37-XX - Dynamical systems and ergodic theory [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
4. Record Nr.	UNINA9910960991203321
Titolo	Balancing the scales of opportunity : ensuring racial and ethnic diversity in the health professions / / Committee on Increasing Minority Participation in the Health Professions, Marion Ein Lewin and Barbara Rice, editor , Office of Health Policy Programs and Fellowships, Institute of Medicine
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1994
ISBN	9786610193356 9781280193354 1280193352 9780309586771 0309586771 9780585019918 0585019916
Edizione	[1st ed.]
Descrizione fisica	1 online resource (100 p.)
Altri autori (Persone)	LewinMarion Ein RiceBarbara
Disciplina	331.11/913621/08693
Soggetti	Minorities in medicine - United States Medical personnel

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	<p>""BALANCING THE SCALES OF OPPORTUNITY""; ""Copyright""; ""Preface"";      ""Acknowledgments""; ""Contents""; ""Executive Summary"";      ""BACKGROUND""; ""FINDINGS""; ""RECOMMENDATIONS""; ""1      Introduction""; ""BACKGROUND""; ""SIGNIFICANCE OF THE PROBLEM"";      ""Need to Improve Health Services for Minorities""; ""Professional      Development for All Personnel""; ""Loss in Economic Productivity"";      ""Influencing and Improving Public Policy""; ""Facilitating Institutional      Change""; ""Community Leadership and Advocacy""; ""Relevance to      Health Care Reform""; ""Relevance to Reform in Public Education""      ""2 Factors That Define the Pipeline""""WHERE THE LEAK BEGINS"";      ""Medical School""; ""The Admissions Process""; ""Other Health      Professions Schools""; ""Allied Health""; ""FACTORS ASSOCIATED WITH      MINORITY UNDERREPRESENTATION""; ""Overt Racism or Lack of      Concern?""; ""Problems in Funding""; ""Lack of Institutional      Commitment""; ""Regents of California v. Bakke""; ""Individual and      Community Responsibilities""; ""CONCLUSION""; ""3 Lessons from      Successful Programs""; ""MEDICAL SCHOOL LEVEL""; ""The Admissions      Process""; ""Fostering Academic Careers""; ""Faculty Development""      ""POSTBACCALAUREATE PROGRAMS""""COLLEGE PROGRAMS"";      ""College-Level Summer Program""; ""Faculty Development"";      ""UNIVERSITY OUTREACH""; ""HIGH SCHOOL PROGRAM"";      ""COMPREHENSIVE PROGRAMS""; ""SUMMARY""; ""4 Sharing Visions and      Working Toward the Future""; ""BUILDING THE VISION""; ""Improved      Mathematics and Science Learning""; ""Commitment to Excellence"";      ""Collaborative Efforts""; ""Value on Diversity""; ""The Right Attitude for      Learning""; ""Culturally Sensitive Communications""; ""Mentorship"";      ""Improved Evaluation and Dissemination Efforts""; ""Improved,      Coordinated Resources""      ""Improving Health Services for Minorities""""MOVING THE VISION      FORWARD""; ""Community-Wide Initiative""; ""Commitment and      Initiatives of Academic Health Centers""; ""The Media and Health      Careers""; ""SUMMARY""; ""References""; ""A: Listing of Workshop      Participants and Commissioned Papers""; ""WORKSHOP PARTICIPANTS"";      ""COMMISSIONED PAPERS""; ""B: Further Sources of Information"";      ""REFERENCES""; ""PROGRAMS""</p>
Sommario/riassunto	<p>The underrepresentation of minorities in health and other professions has long cast a shadow over our nation's efforts to develop a more representative and productive society. Many programs have been developed to enlarge the presence of minorities in health careers, but these efforts have been unable to develop the infrastructure and momentum needed to produce and sustain an adequate number of minority professionals among the ranks of clinicians, researchers, and teachers. This book looks at the historical significance of this underrepresentation, presents data that define the problem, and identifies underlying factors that contribute to the failure to achieve fairness in opportunity. The volume examines programs that have made successful efforts to decrease underrepresentation and sets forth an action and research agenda for further enhancing the numbers of minorities in the health professions.</p>