

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
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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
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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.

Titolo

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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

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Washington, D.C., : National Academy Press, 1994

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Soggetti

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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>