1. Record Nr. UNINA9910957633303321

Titolo	Computational mathematics : theory, methods and applications / / Peter G. Chareton, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2010
ISBN	1-62417-078-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (459 p.)
Collana	Computational mathematics and analysis series
Altri autori (Persone)	CharetonPeter G
Disciplina	518.0285
Soggetti	Numerical analysis - Data processing
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 and index.
Nota di contenuto	Intro -- COMPUTATIONAL MATHEMATICS: THEORY, METHODS AND APPLICATIONS -- COMPUTATIONAL MATHEMATICS: THEORY, METHODS AND APPLICATIONS -- CONTENTS -- PREFACE -- ANALYTICAL AND NUMERICAL METHODS IN THE LINEAR STABILITY STUDY OF IDEAL FLOWS ON A SPHERE -- ABSTRACT -- 1. INTRODUCTION -- 2. HILBERT SPACES AND GEOMETRIC STRUCTURE OF SMOOTH FUNCTIONS ON A SPHERE -- 3. INTEGRAL FORMULAS RELATED TO THE JACOBIAN -- Lemma 1 -- 4. STEADY BVE SOLUTIONS ON A ROTATING SPHERE -- 5. CONSERVATION LAW FOR PERTURBATIONS TO LP FLOWS AND RH WAVES -- Theorem 1 -- 6. CONSERVATION LAW FOR INFINITESIMAL PERTURBATIONS TO WV WAVES AND MODONS -- Theorem 2 -- 7. UNIFIED CONSERVATION LAW FOR DISTURBANCES OF BE SOLUTIONS -- 8. INSTABILITY CONDITIONS FOR LP FLOWS, RH WAVES, WV WAVES AND MODONS -- Theorem 3 -- Example 1 -- Example 2 -- Example 3 -- Theorem 4 -- 9. PECULIARITIES OF INSTABILITY CONDITIONS FOR WV WAVES AND MODONS -- 10. ESTIMATES OF THE MAXIMUM GROWTH RATE OF UNSTABLE MODES -- Theorem 5 -- Theorem 6 -- 11. ORTHOGONALITY OF UNSTABLE MODES TO THE BASIC FLOW (BVE SOLUTION) -- Theorem 7 -- Corollary 1 -- Corollary 2 -- 12. NUMERICAL EXPERIMENTS -- Experiment 1 -- Experiment 2 -- Experiment 3 -- Experiment 4 -- 13. CONCLUSIONS -- ACKNOWLEDGMENTS -- REFERENCES -- REVIEWED BY -- PURE AND MIXED MATHEMATICS IN THE WORK OF LEONHARD EULER -- ABSTRACT -- 1. INTRODUCTION -- 2. THE RISE OF THE CONCEPT OF FUNCTIONS

11Conclusions -- Acknowledgments -- References -- DISTANCES BASED ON NEIGHBORHOOD SEQUENCES IN THE TRIANGULAR GRID -- Abstract -- 1Introduction -- 1.1Abriefhistoryofdigitalgeometry -- 2BasicDefinitionsandNotations -- 3TheShortestPaths -- 4ConditionforMetricDistances -- 5ComputingtheDistance -- 6DigitalCircles -- 7Conclusion -- References -- A STREAM IN THE STUDY ON NORMALITY OF S-PRODUCTS -- Abstract -- I.S-ProductsandInfiniteProducts -- 1Introduction -- 2ProductsofCompactFactors -- 3TheDefinitionofS-Products -- 4S-ProductsofMetricSpaces -- II.S-ProductswithCountableTightness -- 5TightnessandProducts -- 6S-ProductsofParacompactp-Spaces -- 7GeneralizedMetricSpaces -- 8S-ProductsofGeneralizedMetricSpaces -- 9S-ProductsofParacompactC-ScatteredSpaces -- 10Non-NormalityofS-Products -- III.S-ProductswithoutCountableTightness -- 11CollectionwiseNormalityofS-Products -- 12CountableParacompactnessofS-Products -- 13TheShrinkingPropertyofS-Products -- 14Non-NormalityofS-Products,Revisited -- IV.RectangularProducts -- 15RectangularProductsandCoveringDimension -- 16ProductsofMetricSpaces -- 17ProductsofGeneralizedMetricSpaces -- 18NormalCoversofProducts -- References -- THE COMPLETION OF FUZZY METRIC SPACES AND OF OTHER RELATED STRUCTURES -- Abstract -- 1IntroductionandPreliminaries -- 2TheCompletionofFuzzyMetricSpaces -- 3TheCompletionofStrongFuzzyMetricSpacesandofNon-ArchimedeanFuzzyMetricSpaces -- 4TheCompletionofFuzzyMetricGroups -- 5TheCompletionofIntuitionisticFuzzyMetricSpaces -- Acknowledgments.
References.

Sommario/riassunto

Chareton gathers the latest research in this study of computational mathematics. He highlights such topics as coherence-homotopies of higher order, Vandermonde systems, numerical conformal mappings for waveguides, commutativity formulas for fundamental group entropy, the completion of fuzzy metric spaces and more.

2. Record Nr. UNINA9910964095703321

Titolo	Beyond reductionism : a passion for interdisciplinarity / / edited by Katharine N. Farrell, Tommaso Luzzati and Sybille van den Hove
Pubbl/distr/stampa	Abingdon, Oxon : , : Routledge, , 2013
ISBN	0-203-11228-8 1-136-28171-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (345 p.)
Collana	Routledge studies in ecological economics ; ; 24
Altri autori (Persone)	FarrellKatharine <1969-> HoveSybille van den LuzzatiTommaso
Disciplina	577
Soggetti	Ecology - Economic aspects Environmental economics Environmental policy Interdisciplinary research Reductionism
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 at the end of each chapters and index.
Nota di contenuto	Cover; Title; Copyright; Dedication; Contents; List of contributors; Preface 1: Beyond the argument culture; Preface 2: Embracing fewer answers; List of abbreviations; 1 Introduction; Part I The idea of 'ecological economics': interdisciplinarity in theory, method and practice; 2 Social metabolism, ecological distribution conflicts and languages of valuation; 3 What lies beyond reductionism? Taking stock of interdisciplinary research in ecological economics; 4 The maturing of the structural contradictions of modern European science: an exploratory sketch 5 Beyond reductionism: understanding the 'ecology' of human naturePart II Life after reductionism: exemplary ecological economics beyond reductionism, in practice; 6 Building a career in the epistemological no man's land; 7 How ecofeminists use complexity in ecological economics; 8 Two conceptual tools for Multi-Scale Integrated Analysis of Societal and Ecosystem Metabolism (MuSIASEM):

	'multi-purpose grammars' and 'impredicative loop analysis'; Part III Into the woods: mapping the challenges and the possibilities for continuing the development of methods that extend beyond reductionism 9 Looking for a place to anchor: confusing thoughts along an interdisciplinary dissertation journey10 Probing the boundaries of resilience science in practice; 11 Beyond reductionism: issues for future research on sustainability; Index
Sommario/riassunto	This is a book about the work of scientists in the era of the Anthropocene: where human beings appear to have become a driving force in the evolution of the planet. It is a diverse collection of empirical, methodological and theoretical chapters concerned with the practice of interdisciplinary social-ecological systems research. The aim of the contributors is to give the reader an appreciation for the range and complexity of the challenges faced by researchers, research institutions and wider communities trying to make sense of the causes and consequences of the this new era of global envir