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Linear Algebra with Applications 2011-08-24

revised and edited linear algebra with applications seventh edition is designed for the introductory course in linear algebra and is organized into 3 natural parts part 1 introduces the basics presenting systems of linear equations vectors and subspaces of \mathbb{R}^n matrices linear transformations determinants and eigenvectors part 2 builds on this material introducing the concept of general vector spaces discussing properties of bases developing the rank nullity theorem and introducing spaces of matrices and functions part 3 completes the course with many of the important ideas and methods of numerical linear algebra such as ill conditioning pivoting and lu decomposition offering 28 core sections the seventh edition successfully blends theory important numerical techniques and interesting applications making it ideal for engineers scientists and a variety of other majors

Introduction to Abstract Algebra 2012-03-20

praise for the third edition an expository masterpiece of the highest didactic value that has gained additional attractivity through the various improvements zentralblatt math the fourth edition of introduction to abstract algebra continues to provide an accessible approach to the basic structures of abstract algebra groups rings and fields the book's unique presentation helps readers advance to abstract theory by presenting concrete examples of induction number theory integers modulo n and permutations before the abstract structures are defined readers can immediately begin to perform computations using abstract concepts that are developed in greater detail later in the text the fourth edition features important concepts as well as specialized topics including the treatment of nilpotent groups including the frattini and fitting subgroups symmetric polynomials the proof of the fundamental theorem of algebra using symmetric polynomials the proof of wedderburn's theorem on finite division rings the proof of the wedderburn artin theorem throughout the book worked examples and real world problems illustrate concepts and their applications facilitating a complete understanding for readers regardless of their background in mathematics a wealth of computational and theoretical exercises ranging from basic to complex allows readers to test their comprehension of the material in addition detailed historical notes and biographies of mathematicians provide context for and illuminate the discussion of key topics a solutions manual is also available for readers who would like access to partial solutions to the book's exercises introduction to abstract algebra fourth edition is an excellent book for courses on the topic at the upper undergraduate and beginning graduate levels the book also serves as a valuable reference and self study tool for practitioners in the fields of engineering computer science and applied mathematics

Kay Nielsen, Introduction by Keith Nicholson 1975

provides a smooth and pleasant transition from first year calculus to upper level mathematics courses in real analysis abstract algebra and number theory most universities require students majoring in mathematics to take a transition to higher math course that introduces mathematical proofs and more rigorous thinking such courses help students be prepared for higher level mathematics course from their onset advanced mathematics a transitional reference provides a crash course in beginning pure mathematics offering instruction on a blend of inductive and deductive reasoning by avoiding outdated methods and countless pages of theorems and proofs this innovative textbook prompts students to think about the ideas presented in an enjoyable constructive setting clear and concise chapters cover all the essential topics students need to transition from the rote orientated courses of calculus to the more rigorous proof orientated advanced mathematics courses topics include sentential and predicate calculus mathematical induction sets and counting complex numbers point set topology and symmetries abstract groups rings and fields each section contains numerous problems for students of various interests and abilities ideally suited for a one semester course this book introduces students to mathematical proofs and rigorous thinking provides thoroughly class tested material from the authors own course in transitioning to higher math strengthens the mathematical thought process of the reader includes informative sidebars historical notes and plentiful graphics offers a companion website to access a supplemental solutions manual for instructors advanced mathematics a transitional reference is a valuable guide for undergraduate students who have taken courses in calculus differential equations or linear algebra but may not be prepared for the more advanced courses of real analysis abstract algebra and number theory that await them this text is also useful for scientists engineers and others seeking to refresh their skills in advanced math

Advanced Mathematics 2019-10-02

the study of noncommutative rings is a major area in modern algebra the structure theory of noncommutative rings was originally concerned with three parts the study of semi simple rings the study of radical rings and the construction of rings with given radical and semi simple factor rings recently this has extended to many new parts the zero divisor theory

containing the study of coefficients of zero dividing polynomials and the study of annihilators over noncommutative rings that is related to the köthe s conjecture the study of nil rings and jacobson rings the study of applying ring theoretic properties to modules representation theory the study of relations between algebraic and concepts of other branches for example analytic and topological etc thus noncommutative rings are ubiquitous in mathematics and occur in numerous sciences this volume consists of a collection of original articles refereed by world experts that was presented at the sixth china japan korea international conference on ring theory these articles exhibit new ideas tools and techniques needed for successful research and investigation in noncommutative ring theory and show the trend of current research it is a useful resource book for beginners and advanced experts in ring theory contents rings over which polynomial rings are ni juncheol han yang lee and sung pil yang the galois map and its induced maps george szeto and lianyong xue notes on weakly d koszul modules jiafeng lü and xiaolan yu an extension of rings and hochschild 2 cocycles m tamer koşan tsiu kwen lee and yiqiang zhou when do the direct sums of modules inherit certain properties gangyong lee s tariq rizvi and cosmin roman notes on simple baer modules and rings lixin mao a note on quasi johns rings liang shen von neumann regular rings satisfying generalized almost comparability mamoru kutami a new pseudorandom number generator ast huiling song a note on prime rings with left derivations nadeem ur rehman on rings in which every ideal is prime hisaya tsutsui some commutativity theorems concerning additive mappings and derivations on semiprime rings shakir ali basudeb dhara and ajda fošner study on the algebraic structures in terms of geometry and deformation theory fumiya suenobu and fujio kubo on the faith conjecture kiyochi oshiro a short proof that continuous modules are clean v p camillo d khurana t y lam w k nicholson and y zhou structures on s g near rings and r s groups yong uk cho imprimitive regular action in the ring of integers modulo n juncheol han yang lee and sangwon park on symmetric biderivations of semiprime rings asma ali and faiza shujat τ projective and strongly τ projective modules ismail amin yasser ibrahim and mohamed yousif readership graduate students and researchers in ring theory and its applications in mathematics physics and computer science keywords ring theory module theory

Contemporary Ring Theory 2011 2012-04-26

from the international phenomenon karl ove knausgaard the extraordinary final volume of the most significant literary enterprise of our times guardian karl ove knausgaard s dazzling new novel the morning star is available to pre order now in this final novel in the my struggle cycle karl ove knausgaard examines life death love and literature with unsparing rigour and begins to count the cost of his project the end reflects on the fallout from the earlier books with knausgaard facing the pressures of literary acclaim and its often shattering repercussions it is at once a meditation on writing and its relationship with reality and an account of a writer s relationship with himself from his ambitions to his doubts and frailties epic it creates a world that absorbs you utterly sunday times compulsively addictive daily telegraph my struggle has strong claim to be the great literary event of the twenty first century guardian a mesmerising thought provoking and genuinely important work of art spectator

The End 2018-08-30

explore the main algebraic structures and number systems that play a central role across the field of mathematics algebra and number theory are two powerful branches of modern mathematics at the forefront of current mathematical research and each plays an increasingly significant role in different branches of mathematics from geometry and topology to computing and communications based on the authors extensive experience within the field algebra and number theory has an innovative approach that integrates three disciplines linear algebra abstract algebra and number theory into one comprehensive and fluid presentation facilitating a deeper understanding of the topic and improving readers retention of the main concepts the book begins with an introduction to the elements of set theory next the authors discuss matrices determinants and elements of field theory including preliminary information related to integers and complex numbers subsequent chapters explore key ideas relating to linear algebra such as vector spaces linear mapping and bilinear forms the book explores the development of the main ideas of algebraic structures and concludes with applications of algebraic ideas to number theory interesting applications are provided throughout to demonstrate the relevance of the discussed concepts in addition chapter exercises allow readers to test their comprehension of the presented material algebra and number theory is an excellent book for courses on linear algebra abstract algebra and number theory at the upper undergraduate level it is also a valuable reference for researchers working in different fields of mathematics computer science and engineering as well as for individuals preparing for a career in mathematics education

Algebra and Number Theory 2011-07-15

this introduction to the tools required for literary study provides all the skills background and critical knowledge which students require to approach their study of literature with confidence

Eastman's Expectant Motherhood 1989

this textbook provides a unified and concise exploration of undergraduate mathematics by approaching the subject through its history readers will discover the rich tapestry of ideas behind familiar topics from the undergraduate curriculum such as calculus algebra topology and more featuring historical episodes ranging from the ancient greeks to fermat and descartes this volume offers a glimpse into the broader context in which these ideas developed revealing unexpected connections that make this ideal for a senior capstone course the presentation of previous versions has been refined by omitting the less mainstream topics and inserting new connecting material allowing instructors to cover the book in a one semester course this condensed edition prioritizes succinctness and cohesiveness and there is a greater emphasis on visual clarity featuring full color images and high quality 3d models as in previous editions a wide array of mathematical topics are covered from geometry to computation however biographical sketches have been omitted mathematics and its history a concise edition is an essential resource for courses or reading programs on the history of mathematics knowledge of basic calculus algebra geometry topology and set theory is assumed from reviews of previous editions mathematics and its history is a joy to read the writing is clear concise and inviting the style is very different from a traditional text i found myself picking it up to read at the expense of my usual late evening thriller or detective novel the author has done a wonderful job of tying together the dominant themes of undergraduate mathematics richard j wilders maa on the third edition the book is presented in a lively style without unnecessary detail it is very stimulating and will be appreciated not only by students much attention is paid to problems and to the development of mathematics before the end of the nineteenth century this book brings to the non specialist interested in mathematics many interesting results it can be recommended for seminars and will be enjoyed by the broad mathematical community european mathematical society on the second edition

Edinburgh Introduction to Studying English Literature 2014-04-16

the volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry includes inorganic polymer syntheses and preparation of important inorganic solids syntheses used in the development of pharmacologically active inorganic compounds small molecule coordination complexes and related compounds also contains valuable information on transition organometallic compounds including species with metal metal cluster molecules all syntheses presented here have been tested

Mathematics and Its History 2020-11-07

the volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry includes inorganic polymer syntheses and preparation of important inorganic solids syntheses used in the development of pharmacologically active inorganic compounds small molecule coordination complexes and related compounds also contains valuable information on transition organometallic compounds including species with metal metal cluster molecules all syntheses presented here have been tested

Inorganic Syntheses 2009-09-22

computer networks a systems approach fifth edition explores the key principles of computer networking with examples drawn from the real world of network and protocol design using the internet as the primary example this best selling and classic textbook explains various protocols and networking technologies the systems oriented approach encourages students to think about how individual network components fit into a larger complex system of interactions this book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students including p2p wireless network security and network applications such as e mail and the ip telephony and video streaming and peer to peer file sharing there is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention other topics include network design and architecture the ways users can connect to a network the concepts of switching routing and internetworking end to end protocols congestion control and resource allocation and end to end data each chapter includes a problem statement which introduces issues to be examined shaded sidebars that elaborate on a topic or introduce a related advanced topic what's next discussions that deal with emerging issues in research the commercial world or society and exercises this book is written for graduate or upper division undergraduate classes in computer networking it will also be useful for industry professionals retraining for network related assignments as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students including p2p wireless security and applications increased focus on application layer issues where innovative and exciting research and design is

currently the center of attention free downloadable network simulation software and lab experiments manual available

Inorganic Syntheses 2009-09-22

this book offers a welcome expansion on key concepts terms and issues in causality it brings much needed clarity to psychological injury assessments and the legal contexts that employ them focusing on ptsd traumatic brain injury and chronic pain and grounding readers in salient u s and canadian case law the book sets out a multifactorial causality framework to facilitate admissibility of psychological evidence in court

Computer Networks 2011-03-02

a world list of books in the english language

Causality of Psychological Injury 2007-05-31

praise for the first edition this book is clearly written and presents a large number of examples illustrating the theory there is no other book of comparable content available because of its detailed coverage of applications generally neglected in the literature it is a desirable if not essential addition to undergraduate mathematics and computer science libraries choice as a cornerstone of mathematical science the importance of modern algebra and discrete structures to many areas of science and technology is apparent and growing with extensive use in computing science physics chemistry and data communications as well as in areas of mathematics such as combinatorics blending the theoretical with the practical in the instruction of modern algebra modern algebra with applications second edition provides interesting and important applications of this subject effectively holding your interest and creating a more seamless method of instruction incorporating the applications of modern algebra throughout its authoritative treatment of the subject this book covers the full complement of group ring and field theory typically contained in a standard modern algebra course numerous examples are included in each chapter and answers to odd numbered exercises are appended in the back of the text chapter topics include boolean algebras polynomial and euclidean rings groups quotient rings quotient groups field extensions symmetry groups in three dimensions latin squares pólya burnside method of enumeration geometrical constructions monoids and machines error correcting codes rings and fields in addition to improvements in exposition this fully updated second edition also contains new material on order of an element and cyclic groups more details about the lattice of divisors of an integer and new historical notes filled with in depth insights and over 600 exercises of varying difficulty modern algebra with applications second edition can help anyone appreciate and understand this subject

The Cumulative Book Index 1996

manganese mineralization is diverse in occurrence origin mineralogy and geochemistry this volume includes a review of the range of terrestrial mn deposits and their relative abundance through geological time experimental and modelling approaches to mn geochemistry and mineralogy can further aid our understanding of the formational and depositional processes involved and thereby our interpretation of deposit metallogenesis

Modern Algebra with Applications 2004-01-30

this authoritative reference the sixth edition of an internationally acclaimed bestseller offers the most up to date information available on multidisciplinary pain diagnosis treatment and management pain management a practical guide for clinicians is a compilation of literature written by members of the american academy of pain management the largest multidisciplinary society of pain management professionals in north america and the largest physician based pain society in the united states this unique reference covers both traditional and alternative approaches and discusses the pain of children as well as adult and geriatric patients it includes approximately 60 new chapters and each chapter is written to allow the reader to read independently topics of interest and thus may be viewed as a self contained study module the collection of chapters allows an authoritative self study on many of the pressing issues faced by pain practitioners regardless of your specialty or medical training or whether you are in a large hospital or a small clinic if you work with patients in need of pain management this complete reference is for you

Manganese Mineralization 1997

the sixth edition of a classic in organic chemistry continues its tradition of excellence now in its sixth edition march's advanced organic chemistry remains the gold standard in organic chemistry throughout its six editions students and chemists from around the world have relied on it as an essential resource for planning and executing synthetic reactions the sixth edition brings the text completely current with the most recent organic reactions in addition the references have been updated to enable readers to find the latest primary and review literature with ease new features include more than 25 000 references to the literature to facilitate further research revised mechanisms where required that explain concepts in clear modern terms revisions and updates to each chapter to bring them all fully up to date with the latest reactions and discoveries a revised appendix b to facilitate correlating chapter sections with synthetic transformations

Pain Management 2001-12-20

a first course in linear algebra originally by k kuttler has been redesigned by the lyryx editorial team as a first course for the general students who have an understanding of basic high school algebra and intend to be users of linear algebra methods in their profession from business economics to science students all major topics of linear algebra are available in detail as well as justifications of important results in addition connections to topics covered in advanced courses are introduced the textbook is designed in a modular fashion to maximize flexibility and facilitate adaptation to a given course outline and student profile each chapter begins with a list of student learning outcomes and examples and diagrams are given throughout the text to reinforce ideas and provide guidance on how to approach various problems suggested exercises are included at the end of each section with selected answers at the end of the textbook bccampus website

March's Advanced Organic Chemistry 2007-01-29

this book transcends current debate on government regulation by lucidly outlining how regulations can be a fruitful combination of persuasion and sanctions the regulation of business by the united states government is often ineffective despite being more adversarial in tone than in other nations the authors draw on both empirical studies of regulation from around the world and modern game theory to illustrate innovative solutions to this problem their ideas include an argument for the empowerment of private and public interest groups in the regulatory process and a provocative discussion of how the government can support and encourage industry self regulation

A First Course in Linear Algebra 2020

fundamental to all areas of mathematics algebra provides the cornerstone for the student's development the concepts are often intuitive but some can take years of study to absorb fully for over twenty years the author's classic three volume set algebra has been regarded by many as the most outstanding introductory work available this work classic algebra combines a fully updated volume 1 with the essential topics from volumes 2 and 3 and provides a self contained introduction to the subject in addition to the basic concepts advanced material is introduced giving the reader an insight into more advanced algebraic topics the clear presentation style gives this book the edge over others on the subject undergraduates studying first courses in algebra will benefit from the clear exposition and perfect balance of theory examples and exercises the book provides a good basis for those studying more advanced algebra courses complete and rigorous coverage of the important basic concepts topics covered include sets mappings groups matrices vector spaces fields rings and modules written in a lucid style with each concept carefully explained introduces more advanced topics and suggestions for further reading contains over 800 exercises including many solutions there is no better textbook on algebra than the volumes by cohn walter benz universität hamburg germany

Responsive Regulation 1995-02-16

a textbook providing an introduction to financial option valuation for undergraduates solutions available from solutions cambridge org

Classic Algebra 2000-12-19

liar spy meets the parker inheritance in this whimsically complex story about human connection and the power we all have to determine our own fate is there anything more random than middle school sixth graders oliver and frankie don't think so their first few weeks have been full of weirdness lunchtime thievery free beef jerky and matilda the mysterious new girl who knows everything about them but has a lot to learn about making friends but what if none of it is random at all what if a reclusive genius is keeping an eye on them and making sure the tiny pieces of his puzzle fall into place one by one until strange seemingly unconnected incidents snowball totally out of control imagine the odds first a cardamom shortage takes down the school bully then a giant dog leads to some extracurricular spying soon oliver is being followed and matilda is hacking the fbi and by the time they discover a gang of angry clowns and the world's largest game of mousetrap an insanely brilliant plan has been set in motion that will change their lives forever connect the dots is an intricately plotted story about the power of human connection and a chain of coincidences so serendipitous they must be destiny at work

Clearwater National Forest (N.F.), Forest Plan 1987

including student friendly worked examples and solutions that lead up to practice questions this title gives students revision advice ideas summaries and exam practice with hints and tips

Environmental Impact Statement of the Clearwater National Forest, Land and Resource Management Plan 1987

a syllabus specific textbook providing worked examples exam level questions and many practice exercises in accordance to the new edexcel as and advanced gce specification

An Introduction to Financial Option Valuation 2004-04-15

how to use design as a tool to create not only things but ideas to speculate about possible futures today designers often focus on making technology easy to use sexy and consumable in speculative everything anthony dunne and fiona raby propose a kind of design that is used as a tool to create not only things but ideas for them design is a means of speculating about how things could be to imagine possible futures this is not the usual sort of predicting or forecasting spotting trends and extrapolating these kinds of predictions have been proven wrong again and again instead dunne and raby pose what if questions that are intended to open debate and discussion about the kind of future people want and do not want speculative everything offers a tour through an emerging cultural landscape of design ideas ideals and approaches dunne and raby cite examples from their own design and teaching and from other projects from fine art design architecture cinema and photography they also draw on futurology political theory the philosophy of technology and literary fiction they show us for example ideas for a solar kitchen restaurant a flypaper robotic clock a menstruation machine a cloud seeding truck a phantom limb sensation recorder and devices for food foraging that use the tools of synthetic biology dunne and raby contend that if we speculate more about everything reality will become more malleable the ideas freed by speculative design increase the odds of achieving desirable futures

Connect the Dots 2020-05-05

accessible but rigorous this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra its easy to read treatment offers an intuitive approach featuring informal discussions followed by thematically arranged exercises this second edition features additional exercises to improve student familiarity with applications 1990 edition

The British National Bibliography 1998

the main focus of this book is on the causation of starvation in general and of famines in particular the author develops the alternative method of analysis the entitlement approach concentrating on ownership and exchange not on food supply the book also provides a general analysis of the characterization and measurement of poverty various approaches used in economics sociology and political theory are critically examined the predominance of distributional issues including distribution between different occupation groups links up the problem of conceptualizing poverty with that of analyzing starvation

Edexcel AS and a Level Modular Mathematics Statistics 1 S1 2008-07

ptsd pain syndromes traumatic brain injury these three areas are common features of personal injury cases often forming the cornerstone of expert testimony yet their complex interplay in an individual can make evaluation and explaining the results in court extremely difficult psychological knowledge in court focuses on this triad separately and in combination creating a unique guide to forensic evaluations that fulfills both legal and clinical standards its meticulous review of the literature identifies and provides clear guidelines for addressing core issues in causality chronicity and assessment such as are there any definable risk factors for ptsd how prevalent is ptsd after trauma how do patients emotions relate to their pain experience are current pain assessment methods accurate enough what is the role of pre existing vulnerabilities in traumatic brain injury what exactly is mild tbi

Statistics 4 2001

from liane moriarty author of the 1 new york times bestsellers big little lies and truly madly guilty comes an unforgettable novel defined by her signature sharp wit page turning storyline and lovable and eccentric characters sophie honeywell always wondered if thomas gordon was the one who got away he was the perfect boyfriend but on the day he was going to propose she broke his heart a year later he married his travel agent while sophie has been mortifyingly single ever since now thomas is back in her life because sophie has unexpectedly inherited his aunt connie s house on scribbly gum island home of the famously unsolved munro baby mystery sophie moves onto the island and begins a new life as part of an unconventional family where it seems everyone has a secret grace a beautiful young mother is feverishly planning a shocking escape from her perfect life margie a frumpy housewife has made a pact with a stranger while dreamy aunt rose wonders if maybe it s about time she started making her own decisions as sophie s life becomes increasingly complicated she discovers that sometimes you have to stop waiting around and come up with your own fairy tale ending

Speculative Everything 2013-12-06

amsterdam may 1943 as the tulips bloom and the nazis tighten their grip across the city the last signs of dutch resistance are being swept away marijke de graaf and her husband are arrested and deported to different concentration camps in germany marijke is given a terrible choice to suffer a slow death in the labour camp or for a chance at survival to join the camp brothel on the other side of the barbed wire ss officer karl müller arrives at the camp hoping to live up to his father s expectations of wartime glory but faced with a brutal routine of overseeing executions and punishments he longs for an escape when he encounters the newly arrived marijke this meeting changes their lives forever woven into the narrative across space and time is luciano wagner s ordeal in 1977 buenos aires during the heat of the argentine dirty war in his struggle to endure military captivity he searches for ways to resist from a prison cell he may never leave from the netherlands to germany to argentina the dutch wife braids together the stories of three individuals who share a dark secret and are entangled in two of the most oppressive reigns of terror in modern history this is a novel about the blurred lines between love and lust abuse and resistance and right and wrong as well as the capacity for ordinary people to persevere and do the unthinkable in extraordinary circumstances

A Book of Abstract Algebra 2010-01-14

forallx is an introduction to sentential logic and first order predicate logic with identity logical systems that significantly influenced twentieth century analytic philosophy after working through the material in this book a student should be able to understand most quantified expressions that arise in their philosophical reading this book treats symbolization formal semantics and proof theory for each language the discussion of formal semantics is more direct than in many introductory texts although forall x does not contain proofs of soundness

and completeness it lays the groundwork for understanding why these are things that need to be proven contents what is logic sentential logic truth tables quanti ed logic formal semantics proofs other symbolic notation solutions to selected exercises

Poverty and Famines 1983-01-20

this book introduces aqueous geochemistry applied to geothermal systems it is specifically designed for readers first entering into the world of geothermal energy from a variety of scientific and engineering backgrounds and consequently is not intended to be the last word on geothermal chemistry instead it is intended to provide readers with sufficient background knowledge to permit them to subsequently understand more complex texts and scientific papers on geothermal energy the book is structured into two parts the first explains how geothermal fluids and their associated chemistry evolve and shows how the chemistry of these fluids can be used to deduce information about the resource the second part concentrates on survey techniques explaining how these should be performed and the procedures which need to be adopted to ensure reliable sampling and analytical data are obtained a geothermal system requires a heat source and a fluid which transfers the heat towards the surface the fluid could be molten rock magma or water this book concentrates on the chemistry of the water or hydrothermal systems consequently magma energy systems are not considered hot dry rock hdr systems are similarly outside the scope of this text principally because they contain no indigenous fluid for study both magma energy and hdr systems have potential as energy sources but await technological developments before they can be exploited commercially geothermal systems based on water however are proven energy resources which have been successfully developed throughout the world

Psychological Knowledge in Court 2006-06-14

The Last Anniversary 2010-04-20

The Dutch Wife 2018-04-24

Forallx - An Introduction to Formal Logic 2023-11-27

The Nominal Roll of Vietnam Veterans 1997

The Hengel Families from Luxembourg to America 1997

Geothermal Fluids 2012-12-06

EMarketing 2010

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