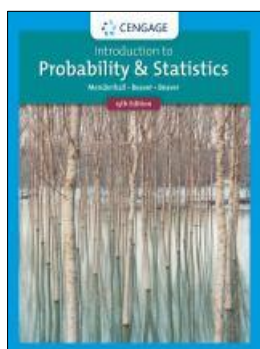


MATHEMATICS

SCOPE

Mathematics is a fundamental part of human thought and logic, and integral to attempts at understanding the world and ourselves. Mathematics provides an effective way of building mental discipline and encourages logical reasoning and mental rigor. In addition, mathematical knowledge plays a crucial role in understanding the contents of other school subjects such as science, social studies, and even music and art. [Source mathunion.org]



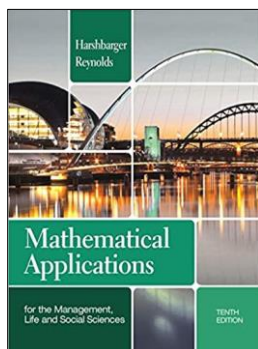
Introduction to probability and statistics (2020)

Mendelhall, William

CO QA276 .M425 2020

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

In the technologically advanced world of today, we encounter data and statistics daily. From news outlets to retail to social media, it is becoming ever more important to understand statistics and how they are used. This text contains full coverage of descriptive and inferential statistics while taking a user-friendly approach to help students practice, understand and connect to statistical thinking. The 4th Canadian Edition aims to bolster student success with exercises that encourage students to use the breadth of their knowledge and develop strong conceptual foundations.



Mathematical Applications for the Management, Life, and Social Sciences (2019)

Harshbarger, Ronald J.

CO QA37.3 .H37 2019

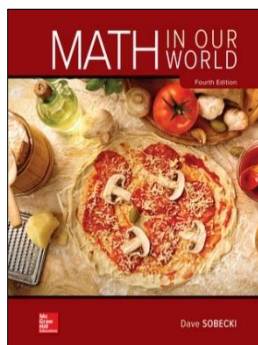
Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book helps students succeed in finite mathematics and applied calculus courses by tying the concepts to real-life applications using real, meaningful data. Designed for students majoring in business, economics, life sciences and social sciences, the book offers a brief review of algebra to prepare students with different backgrounds for the material in later chapters.

Search library resources at: <http://210.213.146.180:8080/#section=home>

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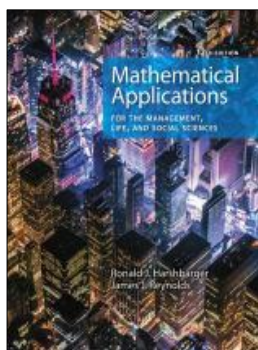
Math in our World (2019)

Sobecki, Dave

CO QA39.3.B5 .S63 2019

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Mathematics in Our World is designed for mathematics survey courses for non-science majors. The text covers a variety of topics designed to foster interest in and show the applicability of mathematics. The book is written by our successful statistics author, Allan Bluman.



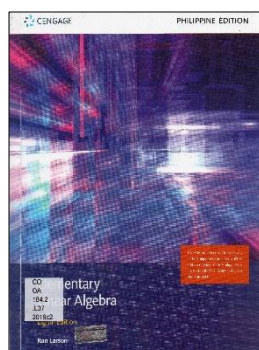
Essentials of Modern Algebra (2019)

Miller, Cheryl Chute

CO QA155 .M52 2019

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This new edition is intended for the undergraduate one or two semester course in modern algebra, also called abstract algebra. It follows that basic plan, using the axioms or rules to understand structures such as groups, rings, and fields, and giving the reader examples to help, but leaving many theorems and examples for them to try.



Elementary Linear Algebra (2019)

Larson, Ron

CO QA184.2 .L37 2019

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

The author is proud to present this new edition, as with all edition, he have been able to incorporate many useful comment from you, our user. And while much has changed in this revision, you still find what you expect pedagogically sound, mathematically precise and comprehensive textbook.

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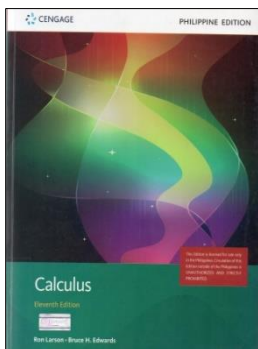
Calculus : Concepts and Contexts (2019)

Stewart, James

CO QA303 .S88253 2019

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Offers a streamlined approach to teaching calculus, focusing on major concepts and supporting those with precise definitions, patient explanations, and carefully graded problems. This book is highly regarded because this text offers a balance of theory and conceptual work to satisfy more progressive programs as well as those who are more comfortable teaching in a more traditional fashion. Each title is just one component in a comprehensive calculus course program that carefully integrates and coordinates print, media, and technology products for successful teaching and learning.



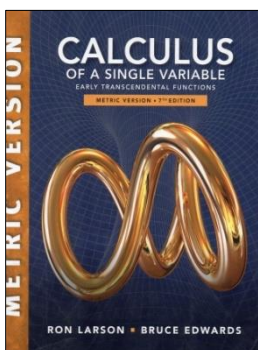
Calculus (2019)

Larson, Ron

CO QA303.2 .L37 2019c2

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book provides the clear instruction, precise mathematics, and thorough coverage that you expect for your course. Additionally, this new edition provides you with free access to three companion websites: CalcView.com – video solutions to selected exercises, CalcChat.com – worked-out solutions to odd-numbered exercises and access to online tutors, LarsonCalculus.com – companion website with resources to supplement your learning.



Calculus of a Single Variable (2019)

Larson, Ron

CO QA303.2 .L383 2019

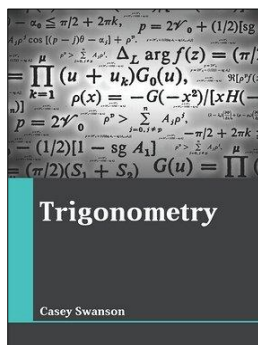
Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book provides the clear instruction, precise mathematics, and thorough coverage that you expect for your course. Additionally, this new edition provides you with free access to three companion websites: CalcView.com – video solutions to selected exercises, CalcChat.com – worked-out solutions to odd-numbered exercises and access to online tutors, LarsonCalculus.com – companion website with resources to supplement your learning.

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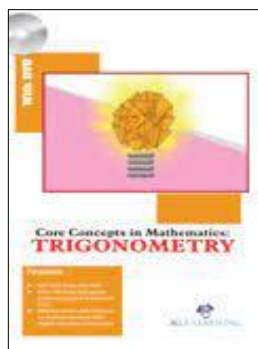
Trigonometry (2019)

Swanson, Casey

CO QA531 .S93 2019

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Trigonometry is an important field of mathematics. It deals with the study of relationship between angles and lengths of triangles. Such studies have led to the development of trigonometric functions. Trigonometric functions relate the angles of a triangle to the lengths of the sides.



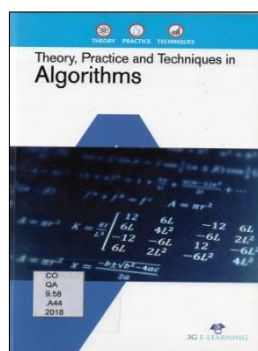
Core concepts in Mathematics : Trigonometry (2019)

3G E-Learning LCC

CO QA531 .T4719 2019

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Trigonometry skills play an important role in a wide variety of careers, including architecture and engineering. Because of this, it's important for students that are interested in the scientific or engineering fields to understand trigonometry.



Theory, Practice and Techniques in Algorithms (2018)

3G E-Learning LLC

CO QA9.58 .A44 2018

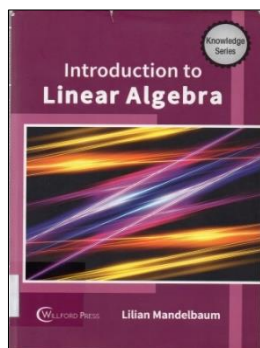
Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

An algorithm is any precise computational procedure that takes some value, or set of values, as input and produces some value, or set of values as output. In other words, algorithms are like road maps for completing a given, well-defined task. So, a number of codes that computes the terms of the Fibonacci sequence are an implementation of a specific algorithm.

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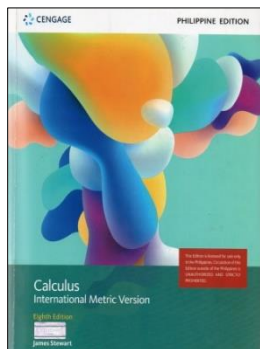
Introduction to Linear Algebra (2018)

Mandelbaum, Lilian [editor]

CO QA184.2 .I58 2018

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Linear algebra refers to the study of lines, sub-spaces, planes and understanding the characteristics of vector spaces. It includes learning and analyzing linear mapping. Linear algebra is also important in understanding differential equations, abstract algebra, functional analysis, etc. This book presents the complex subject of linear algebra in the most comprehensible and easy to understand language. For someone with an interest and eye for detail, this text covers the most significant topics in the field of linear algebra.



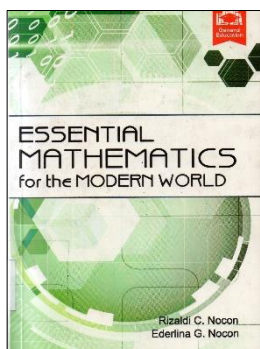
Calculus : International Metric Version (2018)

Stewart, James

CO QA303 .S74 2018

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Success in your calculus course starts here! James Stewart's CALCULUS INTERNATIONAL METRIC EDITION texts are world-wide best-sellers for a reason: they are clear, accurate, and filled with relevant, real-world examples. This book conveys not only the utility of calculus to help you develop technical competence, but also gives you an appreciation for the intrinsic beauty of the subject.



Essential Mathematics for the Modern World (2018)

Nocon, Rizaldi C.

CO-FI QA36.5 .N63 2018

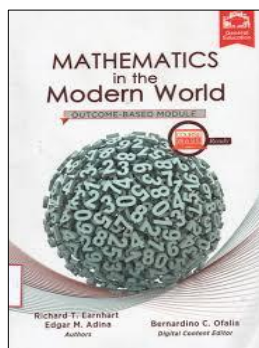
Located in Fr. Jose T. Bacatan SJ, Library – Filipiniana Section

The first textbooks in mathematics that implement CHED's framework for the subject. It connects and relates with the other new general education subjects by utilizing historical bits and perspectives, posing questions for reflection, honing effective communication skills, and presenting math as a set of tools for many of society's concerns, among others.

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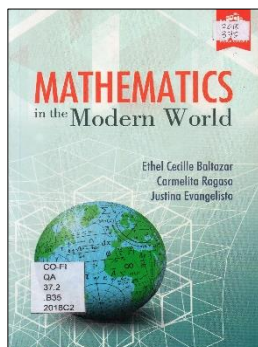
Mathematics in the Modern World (2018)

Earnhart, Richard T.

CO-FI QA37.2 E27 2018

Located in Fr. Jose T. Bacatan SJ, Library – Filipiniana Section

Discusses the nature and functionality of mathematics, with emphasis on deeper and broader appreciation of its practical, intellectual, and aesthetic dimensions. It specially covers the nature and language of mathematics, problem-solving strategies, apportionment and voting systems, geometric symmetry, graph theories, financial mathematics, coding theory and cryptography, basic statistics, and linear programming. This print material, which can also come with a digital component, will surely improve students' competencies essential to their holistic growth as future professionals and members of the community while imbibing in them honesty and integrity in using mathematics to solve issues in the modern world.



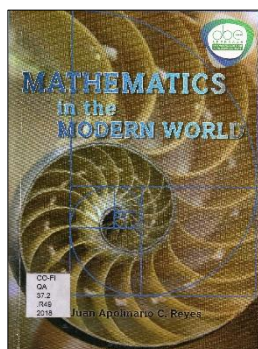
Mathematics in the Modern World (2018)

Baltazar, Ethel Cecile

CO-FI QA37.2 .B35 2018c2

Located in Fr. Jose T. Bacatan SJ, Library – Filipiniana Section

What is mathematics? Where can it be found? What is it for? What is it about? How is it done? Who uses it? These are just some of the essential questions that this book aims to answer. The book covers all mandated topics and some of the elective ones which are all organized in a logical fashion.



Mathematics in the Modern World (2018)

Reyes, Juan Apolinario C.

CO-FI QA37.2 .R49 2018

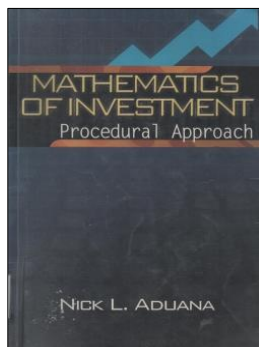
Located in Fr. Jose T. Bacatan SJ, Library – Filipiniana Section

This book has a chapter titled Making Sense of Data, this is the part where we must show how statistics is used to collect, manage, interpret, and present data. Because of the spiral design of mathematics education under K+12, your students ought to come to this course with modest familiarity of statistical tools. Of course, you know it is probably too much of an assumption to make, but if you will not agree to this assumption, you will need more than a semester just to teach the topics listed under Making Sense of Data.

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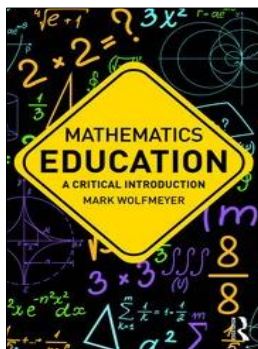
Mathematics of Investment: Procedural Approach (2018)

Aduana, Nick L.

CO QA135.5 H45 2017

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

An indispensable textbook that thoroughly discusses the tools and techniques required in borrowing or lending money, purchasing goods on cash or installment basis, computing interest and discounts, and all other activities that involve investment mathematics. With its clearly defined set of objectives, illustrative problems, and exercises in every lesson, this book offers readers a deeper, more organized, and applicative understanding of the concepts of interest, annuities, amortization, sinking fund, and depreciation.



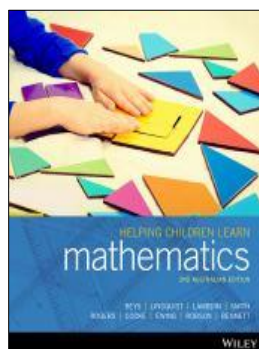
Mathematics Education: A Critical Introduction (2017)

Wolfmeyer, Mark

CO QA13 W654 2017

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book offers both undergraduates and starting-graduate students in education an introduction to the connections that exist between mathematics and a critical orientation to education. This primer shows how concepts like race, class, gender, and language have real effects in the mathematics classroom, and prepares current and future mathematics teachers with a more critical math education that increases accessibility for all students.



Helping children Learn Mathematics (2017)

Reys, Robert E.

CO QA135.5 H45 2017

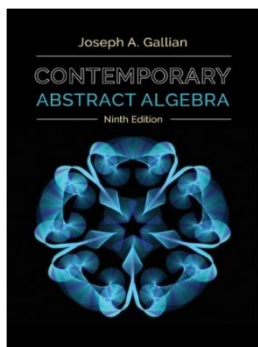
Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Now in its ninth edition, this book helps equip teachers with the necessary skills, strategies, and activities that are essential for them to have when they are in their own elementary math classes.

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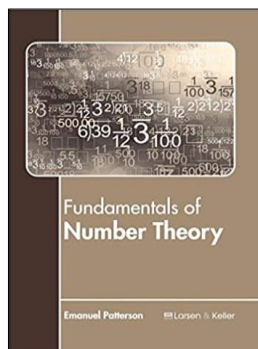
Contemporary Abstract Algebra (2017)

Gallian, Joseph A.

CO QA162 .G34 2017

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Changes for the ninth edition include new exercises, new examples, new biographies, new quotes, new applications, and a refreshing of the historical notes and biographies from the 8th edition. These changes accentuate and enhance the hallmark features that have made previous editions of the book a comprehensive, lively and engaging introduction to the subject.



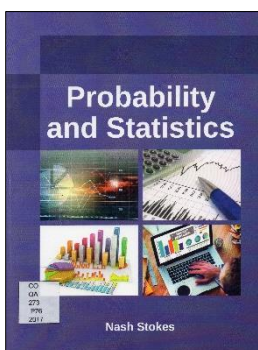
Fundamentals of Number Theory (2017)

Patterson, Emanuel [editor]

CO QA241 .F86 2017

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book elucidates the concepts and innovative models around prospective developments with respect to number theory. Such selected concepts that redefine this subject have been presented in it. It will provide comprehensive knowledge to the readers.



Probability and Statistics (2017)

Stokes, Nash

CO QA273 .P76 2017

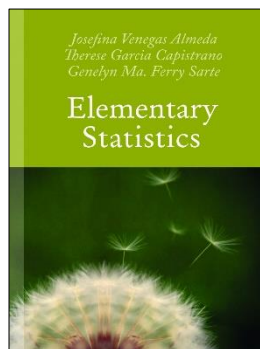
Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Statistics refers to the examination of data on the basis of its presentation, organization, collection, interpretation and analysis. It uses probability as a major factor in analysis of data. Probability explores the classification of data into absolutes. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of statistics and probability. It unfolds the innovative aspects of the area, which will be crucial for the holistic understanding of the subject matter. It is meant for students who are looking for an elaborate reference text on probability and statistics. Those in search of information to further their knowledge will be greatly assisted by this textbook.

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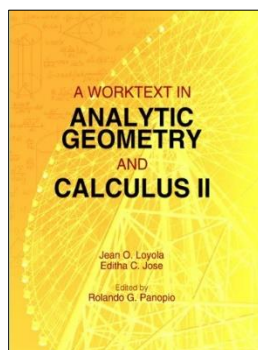
Elementary Statistics (2017)

Patterson, Emanuel [editor]

CO-FI QA276 .A46 2017

Located in Fr. Jose T. Bacatan SJ, Library – Filipiniana Section

Provides college students and researchers with a comprehensive guide on the fundamental principles needed in understanding the logic of statistics. It introduces the language of statistics in a rigorous manner by presenting the simplest yet accurate definitions of statistical terms. It contains step-by-step instructions and practical guidelines on the proper implementation of statistical techniques. All concepts and techniques are clarified through the extensive use of examples, illustrations, and solved problems with detailed solutions.



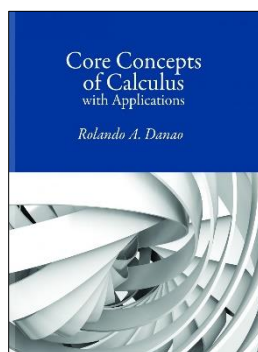
A Worktext in Analytic Geometry and Calculus II (2017)

Loyola, Jean O.

CO-Fi QA303.2 .L69 2017

Located in Fr. Jose T. Bacatan SJ, Library – Filipiniana Section

This worktext is not intended to replace any standard textbook in calculus and analytic geometry but may supplement classroom discussions and serve as a reference text and exercises materials for both faculty members and students. It consist of four chapters, namely Derivatives of and Integrals Yielding Transcendental Functions, Techniques of Integration, Applications of the Definite Integral, and Polar Coordinates.



Core Concepts of Calculus with Applications (2017)

Danao, Rolando A.

CO-FI QA303.3 .D36 2017

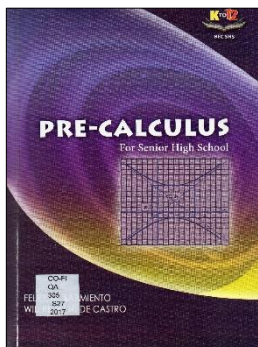
Located in Fr. Jose T. Bacatan SJ, Library – Filipiniana Section

This textbook offers a brief introduction to calculus designed for undergraduate students in disciplines that require only a semester of differential and integral calculus. Although emphasis is put on understanding concepts, the book promotes appreciation of the importance, vitality, and power of calculus through illustrative applications drawn from fields such as the physical sciences, economics, business, management science, engineering, public health, biology, and population dynamics. The book will also be helpful to other students as it contains the core concepts of calculus.

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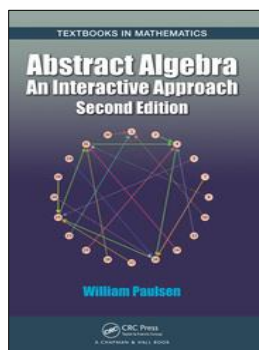
Pre-calculus: K to 12 Basic Education Curriculum Senior High School - Specialization Subject (2017)

Sarmiento, Felipe M.

CO-FI QA305 .S27 2017

Located in Fr. Jose T. Bacatan SJ, Library – Filipiniana Section

The work textbook is divided into topical sections such as derivation, illustrations of topic examples, classroom activities, and homework activities. Students are compelled to do their share by accomplishing all the classroom activities, the homework, and some chapter review problems. This course contemplates on numerous functions that are essential in the topics of the course calculus. The students will be given a lot of works in dealing with different types of functions, an emphasis and understanding on linear, polynomial, exponential, trigonometric functions.



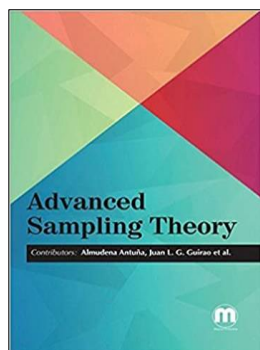
Abstract Algebra: An Interactive Approach (2016)

Paulsen, William

CO QA162 .P38 2016

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

The new edition of Abstract Algebra: An Interactive Approach presents a hands-on and traditional approach to learning groups, rings, and fields. It then goes further to offer optional technology use to create opportunities for interactive learning and computer use.



Advanced Sampling Theory (2016)

Antuña, Almudena

CO QA276.6 .A38 2016

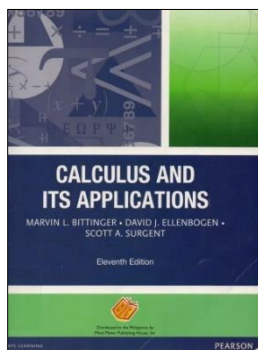
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Sampling is a method of studying from a few selected items, instead of the entire big number of units. The small selection is called sample. The large number of items of units of particular characteristic is called population. The purpose of all the sampling techniques is to give the equal chance of any item to be selected without bias. Sampling theorems are Nyquist–Shannon sampling theorem, Statistical sampling and Fourier sampling. This book envisages on the proof of a number of theorems used in real life examples.

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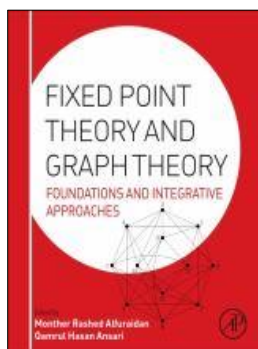
Calculus and Its Applications (2016)

Bittinger, Marvin L.

CO QA303 .B58 2016

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This revision is focused on providing students with just-in-time reminders of skills that should be familiar to them, updating and adding new applications – especially business applications – throughout the text, and fine – turning the pedagogical design elements that make this book so user – friendly.



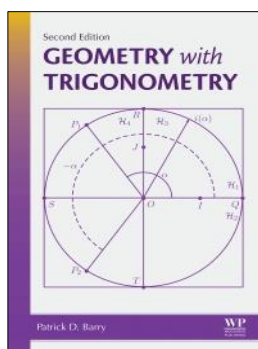
Fixed point theory and graph theory: foundations and integrative approaches (2016)

Alfuraidan, Monther Rashed [editor]

CO QA329.9 .F59 2016

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Provides an intersection between the theories of fixed point theorems that give the conditions under which maps (single or multivalued) have solutions and graph theory which uses mathematical structures to illustrate the relationship between ordered pairs of objects in terms of their vertices and directed edges. This edited reference work is perhaps the first to provide a link between the two theories, describing not only their foundational aspects, but also the most recent advances and the fascinating intersection of the domains.



Geometry with Trigonometry (2016)

Barry, Patrick D.

CO QA453 .B37 2016

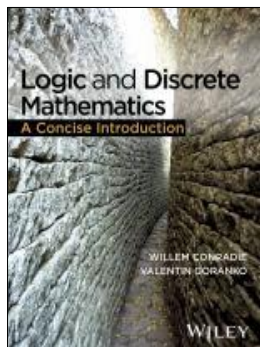
Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This is a second course in plane Euclidean geometry, second in the sense that many of its basic concepts will have been dealt with at school, less precisely. It gets underway with a large section of pure geometry in Chapters 2 to 5 inclusive, in which many familiar results are efficiently proved, although the logical frame work is not traditional. In Chapter 6 there is a convenient introduction of coordinate geometry in which the only use of angles is to handle the perpendicularity or parallelism of lines.

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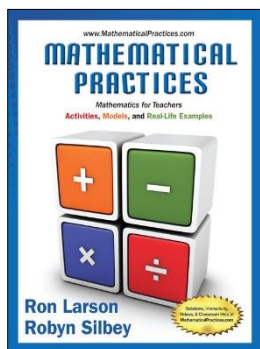
Logic and Discrete Mathematics: A Concise Introduction (2015)

Conradie, Willem

CO QA9 .C66 2015

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book features a unique combination of comprehensive coverage of logic with a solid exposition of the most important fields of discrete mathematics, presenting material that has been tested and refined by the authors in university courses taught over more than a decade.



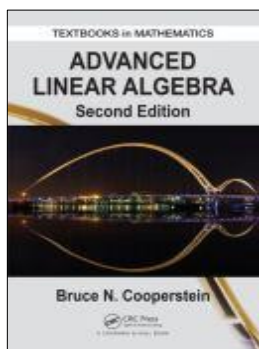
Mathematical Practices: Mathematics for Teachers (2015)

Larson, Ron

CO QA37.2 .L37 2015

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book helps you aspire to be the best educator you can be. Peruse the book and you'll find Classroom Activities integrated into each section; modeling Examples that ask you how to model math concepts in the classroom; real-life Examples that model math concepts you will encounter in your everyday lives; and finally, to frame Ron and Robyn's approach, Common Core State Standards relevant to each lesson to provide you as a future teacher with the knowledge of what your students should know at various grade levels.



Advanced Linear Algebra (2015)

Cooperstein, Bruce N.

CO QA184.2 .C66 2015

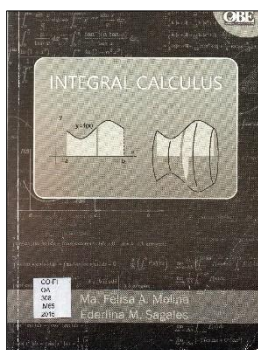
Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book takes a gentle approach that starts with familiar concepts and then gradually builds to deeper results. Each section begins with an outline of previously introduced concepts and results necessary for mastering the new material. By reviewing what students need to know before moving forward, the text builds a solid foundation upon which to progress.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

MATHEMATICS



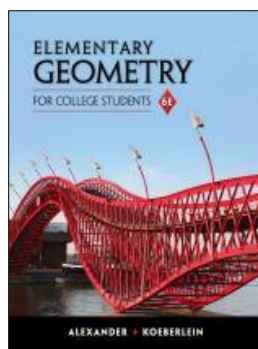
Integral Calculus (2015)

Molina, Ma. Felisa A.

CO-FI QA308 .M65 2015

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This lecture-work book aims to help the students understand and appreciate the second part of the Calculus, integration or anti-differentiation. The topics in each chapter are introduced with definition terms and the discussions are simple and logical for easy understanding. Examples are presented from easy to average and difficult types with step-by-step procedure shown. Sets of exercises are prepared at the end of each topic for the students to practice and to familiarize themselves with the formulas and procedure.



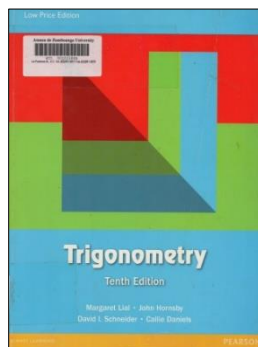
Elementary Geometry for College Students (2015)

Alexander, Daniel C.

CO QA453 .A44 2015

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Building on the success of its first five editions, the Sixth Edition of the market-leading text explores the important principles and real-world applications of plane, coordinate, and solid geometry. Strongly influenced by both NCTM and AMATYC standards, the text includes intuitive, inductive, and deductive experiences in its explorations. Goals of the authors for the students include a comprehensive development of the vocabulary of geometry, an intuitive and inductive approach to development of principles, and the strengthening of deductive skills that leads to both verification of geometric theories and the solution of geometry-based real world applications.



Trigonometry (2014)

Lial, Margaret L.

CO QA531 .L53 2014

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

Focusing on helping students to develop the conceptual understanding and analytical skills necessary to experience success in mathematics, this book presents mathematical topics using a learning system to actively engage students in the learning process. It addresses the diverse needs of students through an open design and other helpful features.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

MATHEMATICS



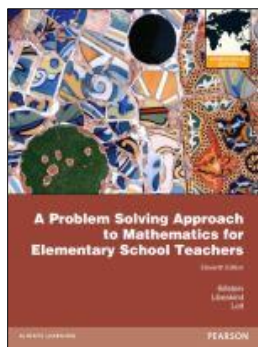
Children's errors in Mathematics (2014)

Hansen, Alice [editor]

CO QA135.6 .D74 2014

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This practical guide to children's common errors and misconceptions in mathematics is a popular planning tool for primary trainees. It supports a deeper understanding of the difficulties encountered in mathematical development. This third edition has been updated to link to the new National Curriculum. New for this edition is a chapter on addressing errors misconceptions which explores how errors can best be identified and countered. The text examines misconceptions individually and in each case provides a description of the error alongside an explanation of why the error happens. The text also considers the role of the teacher in understanding and addressing children's common mathematical misconceptions.



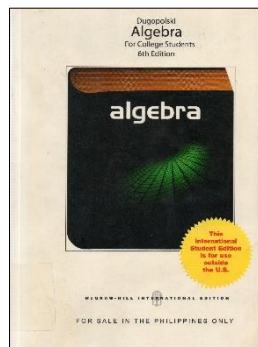
A Problem Solving Approach to Mathematics for Elementary School Teachers (2013)

Billstein, Rick

CO QA135.6 B55 2013

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book is designed to prepare outstanding future elementary and middle school teachers. This edition continues to be heavily concept – and skill – based, with an emphasis on active and collaborative learning. The content has been revised and updated to better prepare students to become teachers in their own classrooms.



Algebra for College Students (2013)

Dugopolski, Mark

CO QA135.6 B55 2013

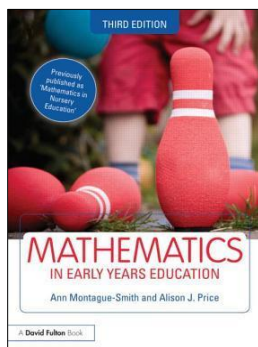
Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

The author originally undertook the task of writing his own book for the elementary and intermediate algebra course so he could explain mathematical concepts to students in language they would understand. Most books claim to do this, but his experience with a variety of texts had proven otherwise. What students and faculty will find in his book are short, precise explanations of terms and concepts that are written in understandable language.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

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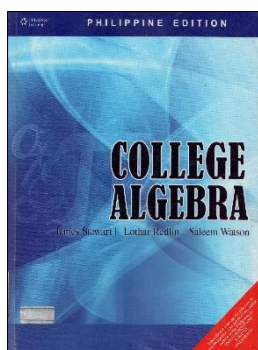
Mathematics in Early Years Education (2012)

Montague-Smith, Ann

CO QA135.5 M66 2012

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This third edition of the best-selling Mathematics in Nursery Education provides an accessible introduction to the teaching of mathematics in the early years. Covering all areas of mathematics learning - number and counting, calculation, pattern, shape, measures and data handling - it summarizes the research findings and underlying key concepts and explains how adults can help children to learn through practical experiences, discussion and more direct intervention.



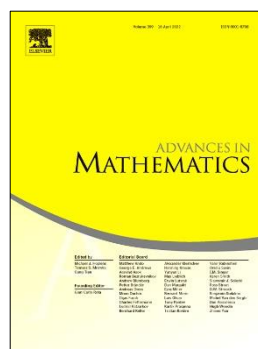
College Algebra (2012)

Stewart, James

CO QA154.2 .St74 2012

Located in Fr. Jose T. Bacatan SJ, Library – Circulation Section

This book is designed to prepare outstanding future elementary and middle school teachers. This edition continues to be heavily concept – and skill – based, with an emphasis on active and collaborative learning. The content has been revised and updated to better prepare students to become teachers in their own classrooms.



Advances in Mathematics

Full-text available from 1961 to present

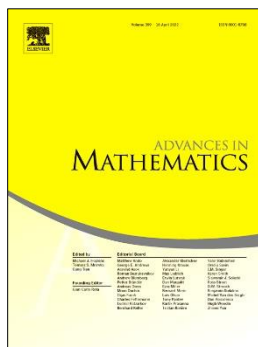
Available in ScienceDirect E-journals

Emphasizing contributions that represent significant advances in all areas of pure mathematics, Advances in Mathematics provides research mathematicians with an effective medium for communicating important recent developments in their areas of specialization to colleagues and to scientists in related disciplines.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

MATHEMATICS

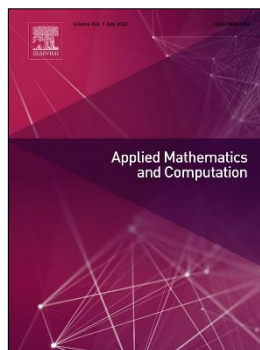


Applied Mathematics Letters

Full-text available from 1988 to present

Available in ScienceDirect E-journals

The purpose of Applied Mathematics Letters is to provide a means of rapid publication for important but brief applied mathematical papers. The brief descriptions of any work involving a novel application or utilization of mathematics, or a development in the methodology of applied mathematics is a potential contribution for this journal. This journal's focus is on applied mathematics topics based on differential equations and linear algebra. Priority will be given to submissions that are likely to appeal to a wide audience.

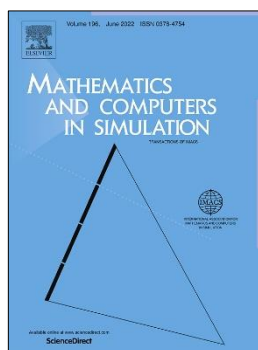


Applied Mathematics and Computation

Full-text available from 1975 to present

Available in ScienceDirect E-journals

Applied Mathematics and Computation addresses work at the interface between applied mathematics, numerical computation, and applications of systems – oriented ideas to the physical, biological, social, and behavioral sciences, and emphasizes papers of a computational nature focusing on new algorithms, their analysis and numerical results.



Mathematics and Computers in Simulation

Full-text available from 1958 to present

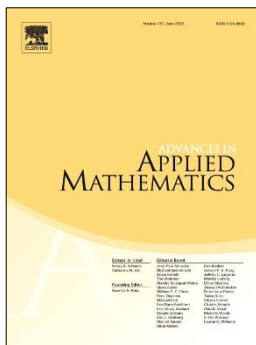
Available in ScienceDirect and EBSCO E-journals

The aim of the journal is to provide an international forum for the dissemination of up-to-date information in the fields of the mathematics and computers, in particular (but not exclusively) as they apply to the dynamics of systems, their simulation and scientific computation in general. Published material ranges from short, concise research papers to more general tutorial articles.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

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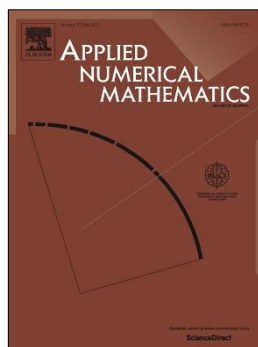


Advances in Applied Mathematics

Full-text available from 1980 to present

Available in ScienceDirect E-journals

Interdisciplinary in its coverage, *Advances in Applied Mathematics* is dedicated to the publication of original and survey articles on rigorous methods and results in applied mathematics. The journal features articles on discrete mathematics, discrete probability theory, theoretical statistics, mathematical biology and bioinformatics, applied commutative algebra and algebraic geometry, convexity theory, experimental mathematics, theoretical computer science, and other areas.

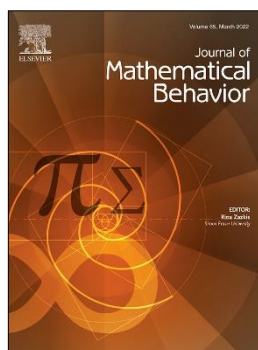


Applied Numerical Mathematics

Full-text available from 1985 to present

Available in ScienceDirect E-journals

The purpose of the journal is to provide a forum for the publication of high quality research and tutorial papers in computational mathematics. In addition to the traditional issues and problems in numerical analysis, the journal also publishes papers describing relevant applications in such fields as physics, fluid dynamics, engineering and other branches of applied science with a computational mathematics component. The journal strives to be flexible in the type of papers it publishes and their format.



The Journal of Mathematical Behavior

Full-text available from 1994 to present

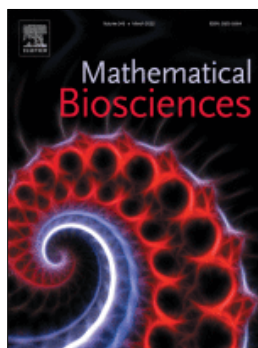
Available in ScienceDirect E-journals

The *Journal of Mathematical Behavior* is an international, double blind peer reviewed journal concerned with the learning and teaching of mathematics. Our fundamental goal is to publish research of the highest quality that expands understanding of how people build, retain, communicate, apply and comprehend mathematical ideas.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

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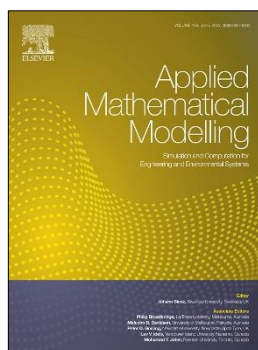


Mathematical Biosciences

Full-text available from 1967 to present

Available in ScienceDirect E-journals

Publishes work providing new concepts or new understanding of biological systems using mathematical models, or methodological articles likely to find application to multiple biological systems. Papers are expected to present a major research finding of broad significance for the biological sciences, or mathematical biology. Mathematical Biosciences welcomes original research articles, letters, reviews and perspectives.

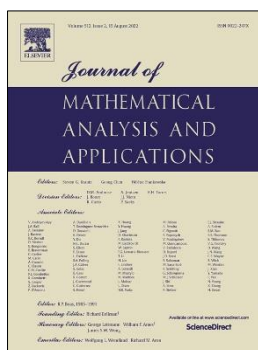


Applied Mathematical Modelling

Full-text available from 1976 to present

Available in ScienceDirect E-journals

Focuses on research related to the mathematical modelling of engineering and environmental processes, manufacturing, and industrial systems. A significant emerging area of research activity involves multiphysics processes, and contributions in this area are particularly encouraged.



Journal of Mathematical Analysis and Applications

Full-text available from 1960 to present

Available in ScienceDirect E-journals

Presents papers that treat mathematical analysis and its numerous applications. In applications the journal emphasizes articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, and engineering, particularly those that stress analytical aspects and novel problems and their solutions.

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Journal of Mathematical Psychology

Full-text available from 1964 to present

Available in ScienceDirect E-journals

Includes articles, monographs and reviews, notes and commentaries, and book reviews in all areas of mathematical psychology. Empirical and theoretical contributions are equally welcome. Areas of special interest include, but are not limited to, fundamental measurement and psychological process models, such as those based upon neural network or information processing concepts. A partial listing of substantive areas covered include sensation and perception, psychophysics, learning and memory, problem solving, judgment and decision-making, and motivation.

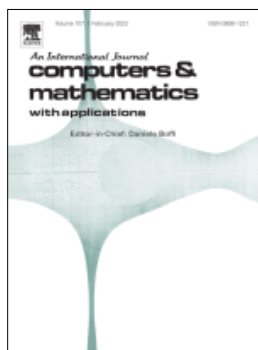


Journal of Computational and Applied Mathematics

Full-text available from 1975 to present

Available in ScienceDirect E-journals

Publishes original papers of high scientific value in all areas of computational and applied mathematics. The main interest of the Journal is in papers that describe and analyze new computational techniques for solving scientific or engineering problems. Also the improved analysis, including the effectiveness and applicability, of existing methods and algorithms is of importance. The computational efficiency (e.g. the convergence, stability, accuracy...) should be proved and illustrated by nontrivial numerical examples. Papers describing only variants of existing methods, without adding significant new computational properties are not of interest.



Computers & Mathematics with Applications

Full-text available from 1975 to present

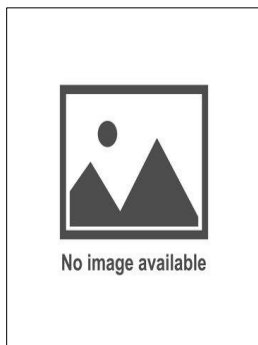
Available in ScienceDirect E-journals

Provides a medium of exchange for those engaged in fields contributing to building successful simulations for science and engineering using Partial Differential Equations (PDEs).

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Visit library webpage at: <https://www.adzu.edu.ph/library/>

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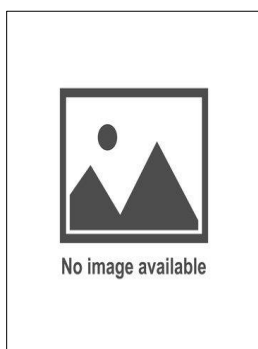


Mathematics (2021)

Hughes, Selma

Available in elibraryUSA (Gale Academic OneFile) E-books

The systematic study of relationships in the physical world and relationships between symbols that need not pertain to the real world. In relation to the world, mathematics is the language of science. It operates within the laws and constraints of science as it examines physical phenomena.

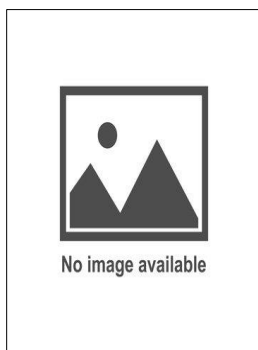


Solving America's mathematics education problem (2012)

Vigdor, Jacob L.

Available in elibraryUSA (Gale Academic OneFile) E-books

American students test poorly in mathematics compared to those in other developed--and in some cases, less developed--countries. While we have seen some signs of improved performance in recent years, these improvements are not yet evident among high school students. And the proportion of new college graduates who majored in math-intensive subjects has declined by nearly half over the past sixty years.



Science, Technology, Engineering, and Mathematics (STEM) Education: An Overview (2021)

Granovskiy, Boris

Available in elibraryUSA (Gale Academic OneFile) E-books

The term STEM education refers to teaching and learning in the fields of science, technology, engineering, and mathematics. It typically includes educational activities across all grade levels--from pre-school to post-doctorate--in both formal (e.g., classrooms) and informal (e.g., afterschool programs) settings. Federal policymakers have an active and enduring interest in STEM education, and the topic is frequently raised in federal science, education, workforce, national security, and immigration policy debates.

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Visit library webpage at: <https://www.adzu.edu.ph/library/>

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Mathematics in School (2021)

Full-text available from 1975 to present

Available in eLibraryUSA (JSTOR) E- journals

This lively journal is produced five times per year and includes contributions from mathematics practitioners. It reflects the best of current thinking and practice. In addition to articles covering mathematics teaching, it provides practical advice on general teaching methods, information on the analysis of official reports and reviews of classroom based projects and surveys. It is aimed at teachers of secondary pupils, students in training and all those with a professional interest in mathematics education.

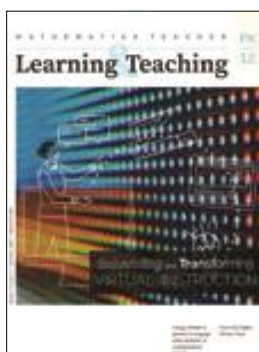


Teaching Children Mathematics (2021)

Full-text available from 1990 to present

Available in eLibraryUSA (JSTOR) E- journals

An official journal of the National Council of Teachers of Mathematics and is intended as a resource for elementary school students, teachers, and teacher educators. The focus of the journal is on intuitive, exploratory investigations that use informal reasoning to help students develop a strong conceptual basis that leads to greater mathematical abstraction. The journal's articles have won numerous awards, including honors from the Society of National Association Publications.



The Mathematics Teacher (2021)

Full-text available from 1900 to present

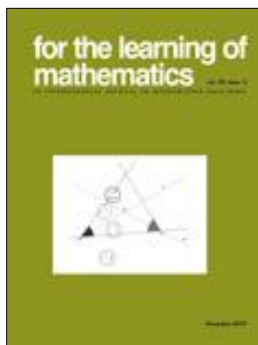
Available in eLibraryUSA (JSTOR) E- journals

An official journal of the National Council of Teachers of Mathematics, is devoted to improving mathematics instruction from grade 8-14 and supporting teacher education programs. It provides a forum for sharing activities and pedagogical strategies, deepening understanding of mathematical ideas, and linking mathematics education research to practice.

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Visit library webpage at: <https://www.adzu.edu.ph/library/>

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For the Learning of Mathematics (2021)

Full-text available from 1980 to present

Available in eLibraryUSA (JSTOR) E- journals

The journal aims to stimulate reflection on mathematics education at all levels, and promote study of its practices and its theories: to generate productive discussion; to encourage enquiry and research; to promote criticism and evaluation of ideas and procedures current in the field. It is intended for the mathematics educator who is aware that the learning and teaching of mathematics are complex enterprises about which much remains to be revealed and understood.

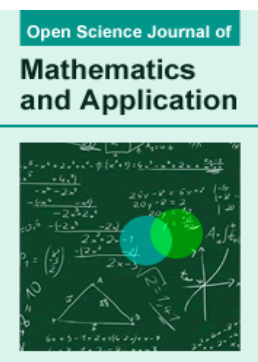


Mathematics Teaching in the Middle School (2019)

Full-text available from 1994 to 2019

Available in eLibraryUSA (JSTOR) E- journals

The Middle School (MTMS) is an official peer-reviewed journal of the National Council of Teachers of Mathematics and is intended as a resource for middle school students, teachers, and teacher educators. The focus of the journal is on intuitive, exploratory investigations that use informal reasoning to help students develop a strong conceptual basis that leads to greater mathematical abstraction. The journal's articles have won numerous awards, including honors from the Society of National Association Publications.



Mathematics for Application

Full-text available from 2016 to 2021

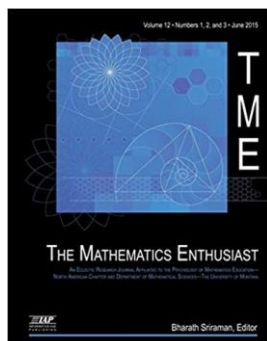
Available in EBSCO E-journals

Publishes original papers of a high scientific level in all branches of mathematics with an emphasis on applications of results in mathematics itself and other disciplines.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

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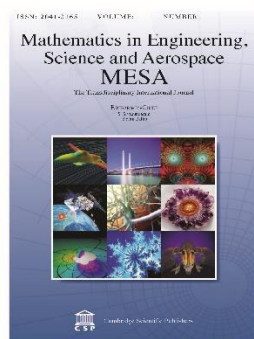


The Mathematics Enthusiast

Full-text available: 2006 to present

Available in EBSCO E-journals

The Mathematics Enthusiast (TME) is an eclectic internationally circulated peer reviewed journal which focuses on mathematics content, mathematics education research, innovation, interdisciplinary issues and pedagogy. The journal exists as an independent entity. It is published on a print-on-demand basis by Information Age Publishing and the electronic version is hosted by the Department of Mathematical Sciences- University of Montana. The journal is not affiliated to nor subsidized by any professional organizations but supports PMENA [Psychology of Mathematics Education- North America] through special issues on various research topics.

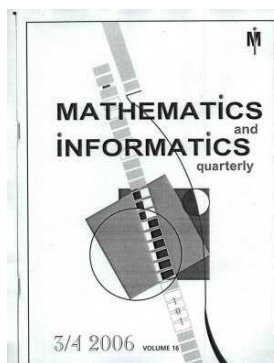


Mathematics in Engineering, Science & Aerospace (MESA)

Full-text available from 2011 to present

Available in EBSCO E-journals

Covers transdisciplinary topics and provides information about the mathematical interaction between various disciplines on engineering, aerospace and all areas of sciences.



Mathematics and Informatics

Full-text available from 2015 to present

Available in EBSCO E-journals

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

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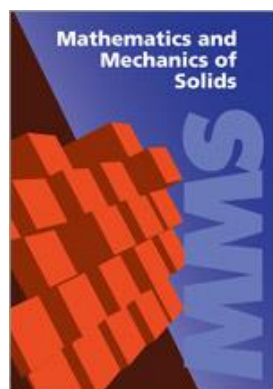


Mathematics Magazine

Full-text available from 1990 to present

Available in EBSCO E-journals

Articles that provide lively and appealing mathematical exposition that is attractive and accessible to undergraduates and helpful in supplementing undergraduate courses or stimulating student investigations.

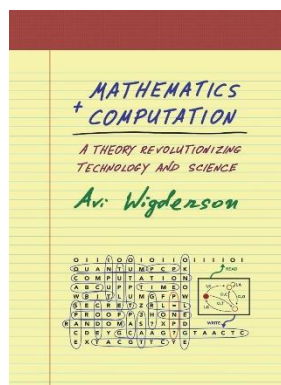


Mathematics & Mechanics of Solids

Full-text available from 1996 to present

Available in EBSCO E-journals

Publishes original, well-written and self-contained research that elucidates the mechanical behavior of solids with particular emphasis on mathematic principles.



Mathematics of Computation

Full-text available from 2007 to present

Available in EBSCO E-journals

Concerned with advances in numerical analysis, application of computational methods, mathematical tables and other aids to computation.

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

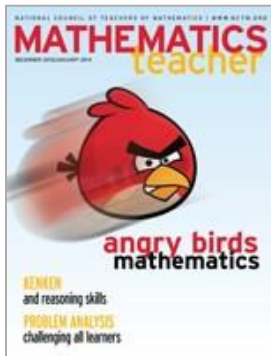
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Mathematics of Control, Signals & Systems

Full-text available from 2003 to present
Available in EBSCO E-journals

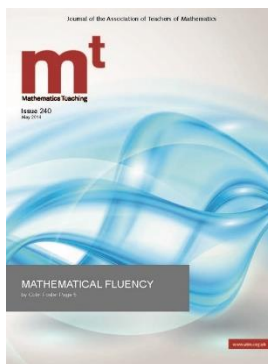
Covers areas of mathematical system theory, control theory and signal processing.



Mathematics Teacher

Full-text available from 2007 to 2019
Available in EBSCO E-journals

Articles and activities for improving mathematics instruction in grade 8 through two-year and teacher education colleges.

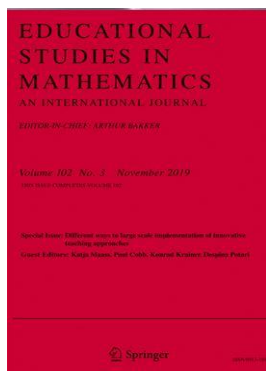


Mathematics Teaching

Full-text available from 1993 to present
Available in EBSCO E-journals

Concerned with classroom approaches to mathematics teaching. Contains articles written by primary & secondary classroom teachers as well as advisors & other with links with mathematics education.

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Educational Studies in Mathematics

Full-text available from 2010 to present

Available in elibraryUSA (Gale Academic OneFile) E-journals

Presents new ideas and developments of major importance to practitioners working in the field of mathematical education. Articles deal with didactical, methodological and pedagogical subjects, rather than with specific programs for teaching mathematics.

Algebraic analysis of deriving formulas for a triangular prism cake (2015)

Adjarani, Dickson B.

GR-FI-TS QA 300 .A35 2015

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

Exploring the use of journal writing in developing mathematical thinking process (2014)

Edig, Ma Melani N.

GR-FI-TS QA 20.J68 E35 2014

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

CEM mathematics diagnostic test and the general average in mathematics of primary grade pupils of Ateneo de Zamboanga (1993)

Degolacion, Roberto J.

GR-FI-TS LB 1501 D43 1993

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

Factors associated with mathematics achievement among high school students (1999)

Codo, Amalia A.

GR-FI-TS QA 11 C62 1999

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

Mathematical performance of freshman college students in the college of arts and sciences, Arellano University, 1998 - 1999 (1999)

Revilleza, Dorisday E.

GR-FI-TS QA 11 R48 1999

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

Search library resources at: <http://210.213.146.180:8080/#section=home>

Visit library webpage at: <https://www.adzu.edu.ph/library/>

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Discovery learning in mathematics (1998)

Reyes, Elsie Paragas

GR-FI-TS QA 11 R49 1998

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

Conditions governing numerical equality of perimeter and area of polygons and area and volume of polyhedrons (1997)

Teofilo Jr., Constancio J.

GR-FI-TS QA 11 T46 1997

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

Extension of the buffon's needle experiment in estimating the value of pi (2006)

Rosagaron Jr., Belino R.

GR-FI-TS QA 11 R67 2006

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

Relationship of the academic performance and the ratings in the License Examination for Teachers (LET) among BSE mathematic graduates (2003)

Dabua-Francisco, Julieta T.

GR-FI-TS LB 1771 D38 2003

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

A study of mathematics and english performances and NCEE results of high school students in Tawi-Tawi (1994)

Ahamad, Junior K.

GR-FI-TS LB 2353 A35 1994

Located in Fr Jose T Bacatan SJ Library – Reference Section – Graduate Theses/Dissertation Area

The relationship of english with mathematics and Philosophy performances among sollege students of Ateneo de Zamboanga (2000)

Duterte, Mary Sheildred M.

GR-FI-TS LB 2369.E5 D87 2000

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Computational mathematics
Trigonometry

Related terms:

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Mathematicians
Mathematical ability
Mathematical instruments
Mathematical research
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