

Diploma Applied Mathematics 1 Chapter Trigonometry Formulae

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

Computer Science and Applied Mathematics: Introduction to Numerical Computations, Second Edition introduces numerical algorithms as they are used in practice. This edition covers the usual topics contained in introductory numerical analysis textbooks that include all of the well-known and most frequently used algorithms for interpolation and approximation, numerical differentiation and integration, solution of linear systems and nonlinear equations, and solving ordinary differential equations. A complete discussion of computer arithmetic, problems that

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arise in the computer evaluation of functions, and cubic spline interpolation are also provided. This text likewise discusses the Newton formulas for interpolation and adaptive methods for integration. The level of this book is suitable for advanced undergraduate students and readers with elementary mathematical background. Featuring a wealth of digital content, this concept-based Print and Enhanced Online Course Book Pack has been developed in cooperation with the IB to provide the most comprehensive support for the new DP Mathematics: analysis and approaches HL syllabus, for first teaching in September 2019.

Gilbert Strang's clear, direct style and detailed, intensive explanations make this textbook ideal as both a course companion and for self-study. Single variable and multivariable calculus are covered in depth. Key examples of the application of calculus to areas such as physics, engineering and economics are included in order to enhance students' understanding. New to the third edition is a chapter on the 'Highlights of calculus', which accompanies the popular video lectures by the author on MIT's OpenCourseWare. These can be accessed from math.mit.edu/~gs.

**Applied Linear Algebra in Action
Mathematics in Colleges & Universities
Vectors, Matrices, and Least Squares
Applied Mathematics for the Managerial, Life,**

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and Social Sciences

Basic Electronics Math

Theory of Knowledge for the IB Diploma Fourth Edition

About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou.

This book does not assume a firm grasp of GCSE maths, and the content is tailored specifically for the needs of engineers. For students taking vocational engineering courses requiring knowledge of mathematics for engineering.

This book is open access under a CC BY License. It provides a comprehensive overview of the core subjects comprising mathematical curricula for engineering studies in five European countries and identifies differences between two strong traditions of teaching mathematics to engineers. The collective work of experts from a dozen universities critically examines various aspects of higher mathematical education. The two EU Tempus-IV projects - MetaMath and MathGeAr - investigate the current methodologies

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of mathematics education for technical and engineering disciplines. The projects aim to improve the existing mathematics curricula in Russian, Georgian and Armenian universities by introducing modern technology-enhanced learning (TEL) methods and tools, as well as by shifting the focus of engineering mathematics education from a purely theoretical tradition to a more applied paradigm. MetaMath and MathGeAr have brought together mathematics educators, TEL specialists and experts in education quality assurance from 21 organizations across six countries. The results of a comprehensive comparative analysis of the entire spectrum of mathematics courses in the EU, Russia, Georgia and Armenia has been conducted, have allowed the consortium to pinpoint and introduce several modifications to their curricula while preserving the generally strong state of university mathematics education in these countries. The book presents the methodology, procedure and results of this analysis. This book is a valuable resource for teachers, especially those teaching mathematics, and curriculum planners for engineers, as well as for a general audience interested in scientific and technical higher education.

Lay politics lies at the heart of democracy. Political offices are the only offices for which no formal qualifications are required. Contemporary political practices are diametrically opposed to this constitutional ideal. Most democracies in Western Europe are diploma democracies - ruled by those with the highest formal qualifications. Citizens with low or

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medium educational qualifications currently make up about 70 percent of the electorates, yet they have become virtually absent from almost all political arenas. University graduates have come to dominate all political institutions and venues, from political parties, parliaments and cabinets, to organised interests, deliberative settings, and Internet consultations. This rise of a political meritocracy is part of larger trend. In the information society, educational background, like class or religion, is an important source of social and political divides. Those who are well educated tend to be cosmopolitans, whereas the lesser educated citizens are more likely to be nationalists. This book documents the context, contours, and consequences of this rise of a political meritocracy. It explores the domination of higher educated citizens in political participation, civil society, and political office in Western Europe. It discusses the consequences of this rise of a political meritocracy, such as descriptive deficits, policy incongruences, biased standards, and cynicism and distrust. Also, it looks at ways to remedy, or at least mitigate, some of the negative effects of diploma democracy.

Applied Mathematics Reviews

Modern Mathematics Education for Engineering

Curricula in Europe

Introduction to Applied Linear Algebra

Science and Mathematics for Engineering

*The Students' Guide to Graduate Studies in the UK
1994*

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Most students entering an electronics technician program have an understanding of mathematics. Basic Electronics Math provides is a practical application of these basics to electronic theory and circuits. The first half of Basic Electronics Math provides a refresher of mathematical concepts. These chapters can be taught separately from or in combination with the rest of the book, as needed by the students. The second half of Basic Electronics Math covers applications to electronics. Basic concepts of electronics math Numerous problems and examples Uses real-world applications

Now in its seventh edition, Basic Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

This excellent book represents the final part of three-volumes regarding MATLAB-based applications in almost every branch of science. The book consists of 19 excellent, insightful articles and the readers will find the results very useful to their work. In particular, the book consists of three parts, the first one is devoted to mathematical methods in the applied sciences by using MATLAB, the second is

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devoted to MATLAB applications of general interest and the third one discusses MATLAB for educational purposes. This collection of high quality articles, refers to a large range of professional fields and can be used for science as well as for various educational purposes.

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of

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new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

Basic Engineering Mathematics

School of engineering. Examination for diploma

Higher Engineering Mathematics

A Fundamental Tool for Scientific Computing and Engineering Applications -

Discrete Mathematics

(Volume 1)

Developed in cooperation with the International Baccalaureate (IB) Build knowledge with this thought-provoking guide through the core theme, the five optional themes and the five areas of knowledge. - Guide students by helping them examine the nature of knowledge and their own status as a knower. - Develop diverse and balanced arguments with a variety of activities, case studies and Deeper Thinking features. - Aid understanding with in-depth discussions of the twelve course concepts and detailed definitions of all key terms. - Provide assessment support with guidance relating to the TOK Exhibition and Essay. Free online material available at hoddereducation.com/ib-extras Also available: Theory of Knowledge Student eTextbook 9781510475458 Theory of Knowledge Whiteboard eTextbook 9781510475441 Theory of Knowledge: Teaching for Success 9781510474659 Theory of Knowledge: Skills for Success 9781510474956

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Theory of Knowledge: Skills for Success Student
eTextbook 9781510475472

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

MATH 221 FIRST Semester Calculus By Sigurd
Angenent

A practical introduction to the engineering science and mathematics required for engineering study and practice. Science and Mathematics for Engineering is an introductory textbook that assumes no prior background in engineering. This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their examinations and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications. A new chapter covers present and future ways of generating electricity, an important topic. John Bird focuses upon engineering examples, enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple choice questions (with answers), and contains sections covering the mathematics that students will require within their engineering studies, mechanical applications, electrical applications and engineering systems. This book is supported by a companion

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website of materials that can be found at www.routledge/cw/bird. This resource includes fully worked solutions of all the further problems for students to access, and the full solutions and marking schemes for the revision tests found within the book for instructor use. In addition, all 447 illustrations will be available for downloading by lecturers.

Diploma Democracy

A Concise Personal Guide to Postgraduate Courses and Research

Fundamentals of Mathematical Statistics

Mathematics - Analysis and Approaches

Stochastic Partial Differential Equations for

Computer Vision with Uncertain Data

A Concise Personal Guide to Research and Graduate Studies in the UK.

This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods and algorithms most relevant to applications in modern technologies and engineering. It addresses mathematical methods of algebra, applied matrix analysis, operator analysis, probability theory and stochastic processes, geometry and computational methods in network analysis, data classification, ranking and optimisation. The individual chapters cover both theory and applications, and include a wealth of figures, schemes, algorithms, tables and results of data analysis.

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and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and further compare and analyse the methods and results discussed. The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students applied mathematics, as well as in the areas of applications of mathematics considered in the book. Applied mathematics connects the mathematical theory to the reality by solving real world problems and shows the power of the science of mathematics, greatly improving our lives. Therefore it plays a very active and central role in the scientific world. This volume contains 14 high quality survey articles — incorporating original

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results and describing the main research activities of contemporary applied mathematics — written by top people in the field. The articles have been written in review style, so that the researcher can have a quick and thorough view of what is happening in the main subfields of applied mathematics. Contents: Two Contemporary Computational Concepts in Numerical Analysis (I K Argyros) On the Simultaneous Approximation of Functions and Their Derivatives (T Kilgore) Copositive Polynomial Approximation Revisited (Y K Hu & X M Yu) Sampling Theory and Function Spaces (H-J Schmeisser & W Sickel) Evaluating Statistical Functionals by Means of Projections onto Convex Cones in Hilbert Spaces: Part I and II (T Rychlik) Extrapolation: From Calculation of ? to Finite Element Method of Partial Differential Equations (X-P Shen) A Survey on Scaling Function Interpolation and Approximation (E-B Lin) and other papers Readership: Applied mathematicians, statisticians, economists and engineers. Keywords: Singular Integrals; Numerical Analysis; Convolution Operators; Approximation of Functions; Minimal Projection; Fuzzy Control; Sampling Theory; Stable Financial Modelling; Ill-Posed Problems; Finite Element Method

Engineering Mathematics with Examples and Applications provides a compact and concise primer in the field, starting with the foundations, and then gradually developing to the advanced level of mathematics that is necessary for all engineering

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disciplines. Therefore, this book's aim is to help undergraduates rapidly develop the fundamental knowledge of engineering mathematics. The book can also be used by graduates to review and refresh their mathematical skills. Step-by-step worked examples will help the students gain more insights and build sufficient confidence in engineering mathematics and problem-solving. The main approach and style of this book is informal, theorem-free, and practical. By using an informal and theorem-free approach, all fundamental mathematics topics required for engineering are covered, and readers can gain such basic knowledge of all important topics without worrying about rigorous (often boring) proofs. Certain rigorous proof and derivatives are presented in an informal way by direct, straightforward mathematical operations and calculations, giving students the same level of fundamental knowledge without any tedious steps. In addition, this practical approach provides over 100 worked examples so that students can see how each of mathematical problems can be derived without any gap or jump in steps. Thus, readers can build their understanding and mathematical confidence gradually and in a step-by-step manner. Covers fundamental engineering topics that are presented at the right level without worry of rigorous proofs Includes step-by-step worked examples (of which 100+ feature in the work) Provides an emphasis on numerical methods, such as root-finding algorithms, numerical integration, and

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numerical methods of differential equations Balances
theory and practice to aid in practical problem-solving
various contexts and applications

Mathematics for Computer Science

MATH 221 FIRST Semester Calculus

Graduate Studies

Circular

Engineering Mathematics with Examples and
Applications

MATLAB

The Students' Guide to Graduate Studies in the UK 199

The original objective of this book was to

**"supply a basic reference work to be used
principally for review by field employees
of the oil and gas industry. The petroleum
industry had a definite need for a
comprehensive work that emphasized the
application of math to field and shop
work." This new edition is now geared
towards using this book as a text as well
as a reference. - page v.**

**Cybersecurity and Applied Mathematics
explores the mathematical concepts
necessary for effective cybersecurity
research and practice, taking an applied
approach for practitioners and students
entering the field. This book covers
methods of statistical exploratory data
analysis and visualization as a type of
model for driving decisions, also**

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discussing key topics, such as graph theory, topological complexes, and persistent homology. Defending the Internet is a complex effort, but applying the right techniques from mathematics can make this task more manageable. This book is essential reading for creating useful and replicable methods for analyzing data. Describes mathematical tools for solving cybersecurity problems, enabling analysts to pick the most optimal tool for the task at hand Contains numerous cybersecurity examples and exercises using real world data Written by mathematicians and statisticians with hands-on practitioner experience

In this book John Bird introduces engineering science through examples rather than theory - enabling students to develop a sound understanding of engineering systems in terms of the basic scientific laws and principles. The book includes 575 worked examples, 1200 problems, 440 multiple choice questions (answers provided), and the maths that students will require is also provided in a separate section within the book. The new edition of Science for Engineering presents the fundamentals of the subject, and has also been brought fully in line with the compulsory Science and

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Mathematics units in the new specifications for BTEC National and BTEC First courses. It also offers full coverage of the compulsory units of AVCE and Intermediate GNVQ (Science and Mathematics). Throughout the book assessment papers are provided that are ideal for use as tests or homework. These are the only problems where answers are not provided in the book. Full worked solutions are available to lecturers only as a free download from the Newnes website: www.newnespress.com * A student-friendly text that does not require any background in engineering * Learn by example: over 1,200 problems, 500 worked examples * Includes assesment papers - worked solutions in a free lecturer's manual

Contains information on a variety of subjects within the field of education statistics, including the number of schools and colleges, enrollments, teachers, graduates, educational attainment, finances, Federal funds for education, libraries, international education, and research and development. The Students' Guide to Graduate Studies in the UK

A Comparative Analysis of EU, Russia, Georgia and Armenia

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Engineering Mathematics II

Introduction to Numerical Computations

Applied Mathematics for the Petroleum and Other Industries

The Directory of Graduate Studies

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions. In image processing and computer vision applications such as medical or scientific image data analysis, as well as in industrial scenarios, images are used as input measurement data. It is good scientific practice that proper measurements must be equipped with error and uncertainty estimates. For many applications, not only the measured values but also their errors and uncertainties, should be—and more and more frequently are—taken into account for further processing. This error and uncertainty propagation must be done for every processing step such that the final result comes with a reliable

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precision estimate. The goal of this book is to introduce the reader to the recent advances from the field of uncertainty quantification and error propagation for computer vision, image processing, and image analysis that are based on partial differential equations (PDEs). It presents a concept with which error propagation and sensitivity analysis can be formulated with a set of basic operations. The approach discussed in this book has the potential for application in all areas of quantitative computer vision, image processing, and image analysis. In particular, it might help medical imaging finally become a scientific discipline that is characterized by the classical paradigms of observation, measurement, and error awareness. This book is comprised of eight chapters. After an introduction to the goals of the book (Chapter 1), we present a brief review of PDEs and their numerical treatment (Chapter 2), PDE-based image processing (Chapter 3), and the numerics of stochastic PDEs (Chapter 4). We then proceed to define the concept of stochastic images (Chapter 5), describe how to accomplish image processing and computer vision with stochastic images (Chapter 6), and demonstrate the use of these principles for accomplishing sensitivity analysis (Chapter 7). Chapter 8 concludes the book and highlights new research topics for the future. The present text book contains a collection of six high-quality articles. In particular, this book is

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devoted to Linear Mathematics by presenting problems in Applied Linear Algebra of general or special interest.

A traditional book with a modern feel, market-leading APPLIED MATHEMATICS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES, Sixth Edition, teaches by application and uses real-world examples to motivate students. It combines solid theory with innovative technology, includes a robust supplement package, and offers unmatched flexibility that caters to both traditional and modern practitioners. Accessible for majors and non-majors alike, the new Sixth Edition utilizes an intuitive approach that marries real-life instances to what would otherwise be abstract concepts. This is the focus of new and insightful Portfolios, which highlight the careers of real people and discuss how they use math in their professions. Numerous exercises ensure that students have a solid understanding of concepts before advancing to the next topic. By offering a powerful array of supplements such as Enhanced WebAssign, the new Sixth Edition enables students to maximize their study time and succeed in class. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Digest of Education Statistics
Second Edition

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The Rise of Political Meritocracy

Mathematics for Computer Science

A Comprehensive Survey of Graduate and

Undergraduate Programs, Final Report

Algebraic, Stochastic and Analysis Structures for

Networks, Data Classification and Optimization

Engineering Mathematics is a comprehensive

pre-degree maths text for vocational courses

and foundation modules at degree level in the

U.K.. John Bird's approach, based on numerous

worked examples supported by problems, is

ideal for students of a wide range of

abilities, and can be worked through at the

student's own pace. Theory is kept to a

minimum, placing a firm emphasis on problem-

solving skills, and making this a thoroughly

practical introduction to the core

mathematics needed for engineering studies

and practice. Throughout the book assessment

papers are provided that are ideal for use as

tests or homework. These are the only

problems where answers are not provided in

the book. Full worked solutions are available

to lecturers only as a free download from the

Newnes website: www.newnespress.com

This book is an introduction to the language

and standard proof methods of mathematics. It

is a bridge from the computational courses

(such as calculus or differential equations)

that students typically encounter in their

first year of college to a more abstract

outlook. It lays a foundation for more

theoretical courses such as topology,

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analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.

This unique book provides a comprehensive introduction to computational mathematics, which forms an essential part of contemporary numerical algorithms, scientific computing and optimization. It uses a theorem-free approach with just the right balance between mathematics and numerical algorithms. This edition covers all major topics in computational mathematics with a wide range of carefully selected numerical algorithms, ranging from the root-finding algorithm, numerical integration, numerical methods of partial differential equations, finite element methods, optimization algorithms, stochastic models, nonlinear curve-fitting to data modelling, bio-inspired algorithms and swarm intelligence. This book is especially suitable for both undergraduates and graduates in computational mathematics, numerical algorithms, scientific computing, mathematical programming, artificial intelligence and engineering optimization. Thus, it can be used as a textbook and/or reference book.

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The

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authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The

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**Minkowski's Inequality 6. Double Expectation
Rule or Double-E Rule and many others
Engineering Mathematics
Engineering Mathematics - Ii
Cybersecurity and Applied Mathematics
Book of Proof
An Open Introduction
Applied Mathematics 1**