

## Mathematical Methods 3,4 Summary sheets

Distance between two points

$$= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Mid-point =  $\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

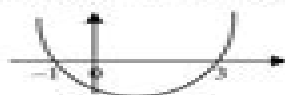
Parallel lines,  $m_1 = m_2$

Perpendicular lines,

$$m_1 m_2 = -1 \quad \text{or} \quad m_2 = -\frac{1}{m_1}$$

Graphs of polynomial functions in factorised form:

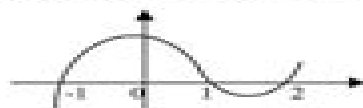
Quadratics e.g.  $y = (x+1)(x-3)$



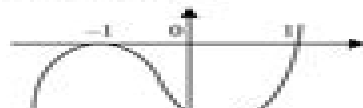
e.g.  $y = (x-3)^2$



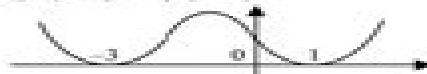
Cubics e.g.  $y = 3(x+1)(x-1)(x-2)$



e.g.  $y = (x+1)^2(x-1)$



e.g.  $y = (x+3)^2(x-1)^2$



e.g.  $y = (x+2)^2(x-1)$

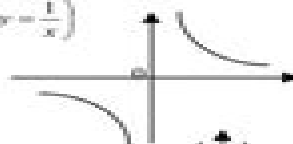


e.g.  $y = (x+2)^3$

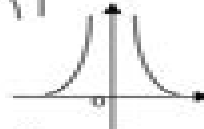


Examples of power functions:

$y = x^{-1}$  ( $y = \frac{1}{x}$ )



$y = x^{-2}$   
( $y = \frac{1}{x^2}$ )

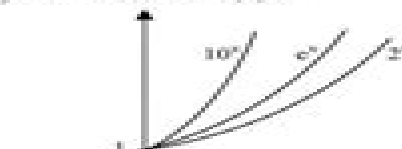


$y = x^{\frac{1}{2}}$   
( $y = \sqrt{x}$ )



Exponential functions:

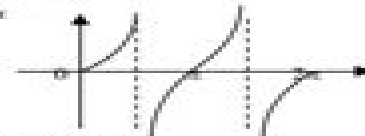
$y = a^x$  where  $a = 2, e, 10$



$y = \cos x$

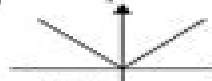


$y = \tan x$



Modulus functions

$$y = |x| = \begin{cases} x, & x \geq 0 \\ -x, & x < 0 \end{cases}$$



Transformations of  $y = f(x)$

(1) Vertical dilation (dilation away from the x-axis, dilation parallel to the y-axis) by factor  $k$ .  $y = kf(x)$

(2) Horizontal dilation (dilation away from the y-axis, dilation parallel to the x-axis) by factor  $\frac{1}{a}$ .  $y = f(ax)$

(3) Reflection in the x-axis.  $y = -f(x)$

(4) Reflection in the y-axis.  $y = f(-x)$

(5) Vertical translation (translation parallel to the y-axis) by  $c$  units.

$$y = f(x) \pm c, \text{ + up, - down.}$$

(6) Horizontal translation (translation parallel to the x-axis) by  $b$  units.

$$y = f(x \pm b), \text{ + left, - right.}$$

\*Always carry out translations last in sketching graphs.

Example 1 Sketch  $y = -2|x-1| + 2$



Example 2 Sketch  $y = 2\sqrt{1-x}$ .

Rewrite as  $y = 2\sqrt{-(x-1)}$ .



# Mathematical Methods

**K. F. Riley, M. P. Hobson, S. J. Bence**



## **Mathematical Methods:**

**Mathematical Methods for Physics and Engineering** K. F. Riley, M. P. Hobson, S. J. Bence, 2006-03-13 The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences As well as lucid descriptions of all the topics and many worked examples it contains over 800 exercises New stand alone chapters give a systematic account of the special functions of physical science cover an extended range of practical applications of complex variables and give an introduction to quantum operators Further tabulations of relevance in statistics and numerical integration have been added In this edition half of the exercises are provided with hints and answers and in a separate manual available to both students and their teachers complete worked solutions The remaining exercises have no hints answers or worked solutions and can be used for unaided homework full solutions are available to instructors on a password protected web site [www.cambridge.org](http://www.cambridge.org) 9780521679718

**Mathematical Methods** Sadri Hassani, 2013-11-11 Intended to follow the usual introductory physics courses this book has the unique feature of addressing the mathematical needs of sophomores and juniors in physics engineering and other related fields Beginning with reviews of vector algebra and differential and integral calculus the book continues with infinite series vector analysis complex algebra and analysis ordinary and partial differential equations Discussions of numerical analysis nonlinear dynamics and chaos and the Dirac delta function provide an introduction to modern topics in mathematical physics This new edition has been made more user friendly through organization into convenient shorter chapters Also it includes an entirely new section on Probability and plenty of new material on tensors and integral transforms Some praise for the previous edition The book has many strengths For example Each chapter starts with a preamble that puts the chapters in context Often the author uses physical examples to motivate definitions illustrate relationships or culminate the development of particular mathematical strands The use of Maxwell's equations to cap the presentation of vector calculus a discussion that includes some tidbits about what led Maxwell to the displacement current is a particularly enjoyable example Historical touches like this are not isolated cases the book includes a large number of notes on people and ideas subtly reminding the student that science and mathematics are continuing and fascinating human activities Physics Today Very well written i e extremely readable very well targeted mainly to an average student of physics at a point of just leaving his/her sophomore level and very well concentrated to an author's apparently beloved subject of PDE's with applications and with all their necessary pedagogically mathematical background The main merits of the text are its clarity achieved via returns and innovations of the context balance building the subject step by step and originality recollect the existence of the complex numbers is only admitted far in the second half of the text Last but not least the student reader is impressed by the graphical quality of the text figures first of all but also boxes with the essentials summarizing comments in the left column etc Summarizing Well done Zentralblatt MATH

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some of Plya's excitement and vision. Its distinctive feature is the stress on the history of certain elementary chapters of science; these can be a source of enjoyment and deeper understanding of mathematics even for beginners who have little or perhaps no knowledge of physics. *Mathematical Methods of Statistics* Harald Cramér, 1999-04-12 Harald Cramér's classic synthesis of statistical mathematical theory: an invaluable resource for students and practitioners alike. In the 1930s, as British and American statisticians were developing the science of statistical inference, French and Russian probabilists transformed the classical calculus of probability into a rigorous and pure mathematical theory. In this incisive and authoritative book, Harald Cramér unites these two major lines of development, providing a masterly exposition of the mathematical methods of modern statistics that set the standard in the field, still followed today. Requiring only a working knowledge of undergraduate mathematics, this self-contained book begins with an introduction to the fundamental concept of a distribution and of integration with respect to a distribution. It goes on to discuss the general theory of random variables and probability distributions, the theory of sampling, statistical estimation, and tests of significance. Blending lucid and accessible writing with mathematical rigor, *Mathematical Methods of Statistics* belongs on the shelf of anyone interested in statistical methods and remains the standard reference on the subject today. *Mathematical Methods in Science and Engineering* John Heading, 1970 **Essential Mathematical Methods for the Physical Sciences** K. F. Riley, M. P. Hobson, 2011-02-17 The mathematical methods that physical scientists need for solving substantial problems in their fields of study are set out clearly and simply in this tutorial style textbook. Students will develop problem-solving skills through hundreds of worked examples, self-test questions, and homework problems. Each chapter concludes with a summary of the main procedures and results, and all assumed prior knowledge is summarized in one of the appendices. Over 300 worked examples show how to use the techniques, and around 100 self-test questions in the footnotes act as checkpoints to build student confidence. Nearly 400 end-of-chapter problems combine ideas from the chapter to reinforce the concepts. Hints and outline answers to the odd-numbered problems are given at the end of each chapter, with fully worked solutions to these problems given in the accompanying Student Solutions Manual. Fully worked solutions to all problems, password-protected for instructors, are available at [www.cambridge.org/essential](http://www.cambridge.org/essential). *Mathematical Methods XIB* Douglas Henderson, 2012-12-02 *Physical Chemistry: An Advanced Treatise, Volume XIB: Mathematical Methods* focuses on mathematical techniques that consist of concepts relating to differentiation and integration. This book discusses the methods in lattice statistics, Pfaffian solution of the planar Ising problem, and probability theory and stochastic processes. The random variables and probability distributions, non-equilibrium problems, Brownian motion, and scattering theory are also elaborated. This text likewise covers the elastic scattering from atoms, solution of integral and differential equations, concepts in graph theory, and theory of operator equations. This volume provides graduate and physical chemistry students a basic understanding of mathematical techniques important in chemistry. *Mathematical Methods in the Physical Sciences* Mary L. Boas, 2006 Market\_Desc: Physicists and

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**Mathematical Methods and Models for Economists** Angel de la Fuente, Ángel de la Fuente, 2000-01-28 A textbook for a first year PhD course in mathematics for economists and a reference for graduate students in economics

*Mathematical Methods in Chemical Engineering* V. G. Jensen, G. V. Jeffreys, 1977 Mathematical Methods in Chemical Engineering

Advanced Mathematical Methods in Science and Engineering S.I. Hayek, 2000-10-13 Gathering an extensive range of mathematical topics into a plenary reference text for solving science and engineering problems Advanced Mathematical Models in Science and Engineering elucidates integral methods field equation derivations and operations applicable to modern science systems Applying academic skills to practical problems in science and engineering the author reviews basic methods of integration and series solutions for ordinary differential equations introduces derivations and solution methods for linear boundary value problems in one dimension covering eigenfunctions and eigenfunction expansions orthogonality and adjoint and self adjoint systems discusses complex variables calculus and integrals as well as application of residues and the integration of multivalued functions considers linear partial differential equations in classical physics and engineering with derivations for the topics of wave equations heat flow vibration and strength of materials clarifies the calculus for integral transforms explains Green's functions for ordinary and partial differential equations for unbounded and bounded media examines asymptotic methods presents methods for asymptotic solutions of ordinary differential equations and more

**Mathematical Methods for Physicists** George B. Arfken, Hans J. Weber, Frank E. Harris, 2011-12-26 Now in its 7th edition Mathematical Methods for Physicists continues to provide all the mathematical methods that aspiring scientists and engineers are likely to encounter as students and beginning researchers This bestselling text provides mathematical relations and their proofs essential to the study of physics and related fields While retaining the key features of the 6th edition the new

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*Computer Vision and Mathematical Methods in Medical and Biomedical Image Analysis* Milan Sonka, Ioannis A. Kakadiaris, Jan Kybic, 2004-10-04 Medical imaging and medical image analysis are rapidly developing While medical imaging has already become a standard of modern medical care medical image analysis is still mostly performed visually and qualitatively The ever increasing volume of acquired data makes it impossible to utilize them in full Equally important the visual approaches to medical image analysis are known to suffer from a lack of reproducibility A significant research effort is devoted to developing algorithms for processing the wealth of data available and extracting the relevant information in a computerized and quantitative fashion Medical imaging and image analysis are interdisciplinary areas combining electrical computer and biomedical engineering computer science mathematics physics statistics biology medicine and other fields Medical imaging and computer vision interestingly enough have developed and continue developing somewhat independently Nevertheless bringing them together promises to benefit both of these fields

We were enthusiastic when the organizers of the 2004 European Conference on Computer Vision ECCV allowed us to organize a satellite workshop devoted to medical image analysis Mathematical Methods for Signal and Image Analysis and Representation Luc Florack, Remco Duits, Geurt Jongbloed, Marie-Colette van Lieshout, Laurie Davies, 2012-01-12

Mathematical Methods for Signal and Image Analysis and Representation presents the mathematical methodology for generic image analysis tasks In the context of this book an image may be any  $m$  dimensional empirical signal living on an  $n$  dimensional smooth manifold typically but not necessarily a subset of spacetime The existing literature on image methodology is rather scattered and often limited to either a deterministic or a statistical point of view In contrast this book brings together these seemingly different points of view in order to stress their conceptual relations and formal analogies Furthermore it does not focus on specific applications although some are detailed for the sake of illustration but on the methodological frameworks on which such applications are built making it an ideal companion for those seeking a rigorous methodological basis for specific algorithms as well as for those interested in the fundamental methodology per se Covering many topics at the forefront of current research including anisotropic diffusion filtering of tensor fields this book will be of particular interest to graduate and postgraduate students and researchers in the fields of computer vision medical imaging and visual perception

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*Mathematical Methods and Modelling in Applied Sciences* Mehmet Zeki Sarıkaya,Hemen Dutta,Ahmet Ocak Akdemir,Hari M. Srivastava,2020-03-02 This book presents a collection of original research papers from the 2nd International Conference on Mathematical and Related Sciences held in Antalya Turkey on 27 30 April 2019 and sponsored supported by D zce University Turkey the University of Jordan and the Institute of Applied Mathematics Baku State University Azerbaijan The book focuses on various types of mathematical methods and models in applied sciences new mathematical tools techniques and algorithms related to various branches of applied sciences and important aspects of applied mathematical analysis It covers mathematical models and modelling methods related to areas such as networks intelligent systems population dynamics medical science and engineering as well as a wide variety of analytical and numerical methods The conference aimed to foster cooperation among students researchers and experts from diverse areas of mathematics and related sciences and to promote fruitful exchanges on crucial research in the field This book is a valuable resource for graduate students researchers and educators interested in applied mathematics and interactions of mathematics with other branches of science to provide insights into analysing modelling and solving various scientific problems in applied sciences

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