

Mathematical Methods 3,4 Summary sheets

Distance between two points

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

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

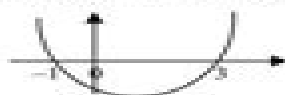
Parallel lines, $m_1 = m_2$

Perpendicular lines,

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

Graphs of polynomial functions in factorised form:

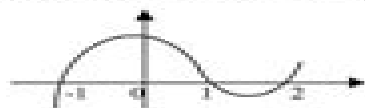
Quadratics e.g. $y = (x+1)(x-3)$



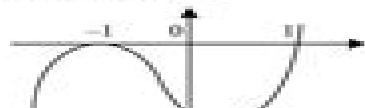
e.g. $y = (x-3)^2$



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

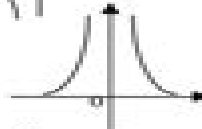


Examples of power functions:

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



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

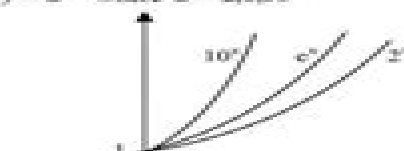


$$y = x^{\frac{1}{2}} \quad \left(y = \sqrt{x} \right)$$



Exponential functions:

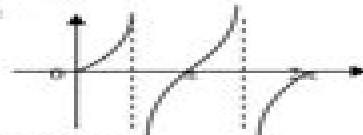
$$y = a^x \quad \text{where } a = 2, e, 10$$



$$y = \cos x$$

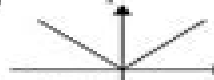


$$y = \tan x$$



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.

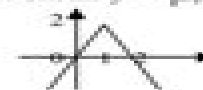
$$y = f(x) \pm c, \quad + \text{ up, } - \text{ down.}$$

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

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

*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

V. G. Jensen, G. V. Jeffreys



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/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 *Mathematical Methods in Science* George Pólya, 1977 This book captures

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 in Science and Engineering** John Heading, 1970

Mathematical Methods in Physics and Engineering John W. Dettman, 2013-01-23. Intended for college level physics, engineering, or mathematics students, this volume offers an algebraically based approach to various topics in applied math. It is accessible to undergraduates with a good course in calculus, which includes infinite series and uniform convergence. Exercises follow each chapter to test the student's grasp of the material; however, the author has also included exercises that extend the results to new situations and lay the groundwork for new concepts to be introduced later. A list of references for further reading will be found at the end of each chapter. For this second revised edition, Professor Dettman included a new section on generalized functions to help explain the use of the Dirac delta function in connection with Green's functions. In addition, a new approach to series solutions of ordinary differential equations has made the treatment independent of complex variable theory. This means that the first six chapters can be grasped without prior knowledge of complex variables. However, since Chapter 8 depends heavily on analytic functions of a complex variable, a new Chapter 7 on analytic function theory has been written. 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. **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 Aerodynamics** Lazăr Dragos, 2003. The book provides a solid and

unitary mathematical foundation of the basic and advanced principles of aerodynamics The densities of the fundamental solutions are determined from singular integral equations The fundamental solutions method in aerodynamics was considered for the first time and used by the author in over 30 papers published in prestigious journals e g QAM AIAA ZAMM etc in order to develop a unitary theory The boundary element method is used for numerical approximations in compressible aerodynamics The text incorporates several original contributions among other traditional mathematical methods The book also represents a comprehensive presentation of research results since the seminal books on aerodynamics of Ashley and Landahl 1965 and Katz Plotkin 1991 A rigorous mathematical approach is used to present and explain classic and modern results in this field of science The author has therefore conceived several appendices on the Distribution Theory the singular Integral Equations Theory the Finite Part Gauss Quadrature Formulae etc The book is concluded by a relevant bibliographical list which is especially useful for researchers The book is aimed primarily at applied mathematicians aeronautical engineers and space science researchers The text may be used also as a comprehensive introduction to the mathematical foundations fo aerodynamics by graduate students n engineering and fluid dynamics with a strong mathematical background

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Nevertheless bringing them together promises to be both of these elds 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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