

Mathematical Methods 3,4 Summary sheets

Distance between two points

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

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

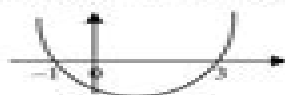
Parallel lines, $m_1 = m_2$

Perpendicular lines,

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

Graphs of polynomial functions in factorised form:

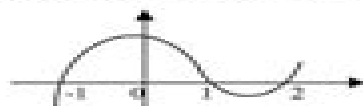
Quadratics e.g. $y = (x+1)(x-3)$



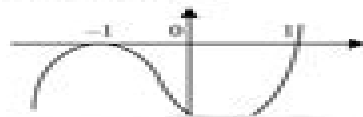
e.g. $y = (x-3)^2$



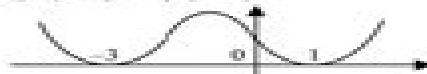
Cubics e.g. $y = 3(x+1)(x-1)(x-2)$



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



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



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

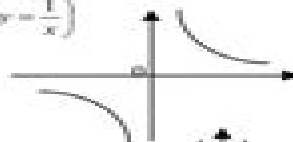


e.g. $y = (x+2)^3$

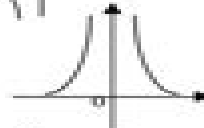


Examples of power functions:

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



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

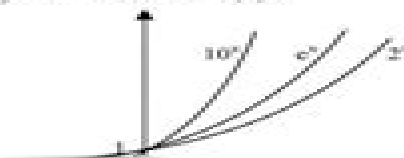


$y = x^{\frac{1}{2}}$
($y = \sqrt{x}$)



Exponential functions:

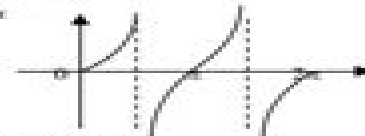
$y = a^x$ where $a = 2, e, 10$



$y = \cos x$

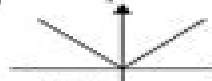


$y = \tan x$



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

Hemen Dutta



Mathematical Methods:

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 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 in Science George Pólya, 1977 This book captures some of Pólya'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 **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 of Statistics Harald Cramér, 1946

Mathematical Methods in Physics Philippe

Blanchard, Erwin Brüning, 2015-04-07 The second edition of this textbook presents the basic mathematical knowledge and skills that are needed for courses on modern theoretical physics such as those on quantum mechanics classical and quantum field theory and related areas The authors stress that learning mathematical physics is not a passive process and include numerous detailed proofs examples and over 200 exercises as well as hints linking mathematical concepts and results to the relevant physical concepts and theories All of the material from the first edition has been updated and five new chapters have been added on such topics as distributions Hilbert space operators and variational methods The text is divided into three parts Part I A brief introduction to Schwartz distribution theory Elements from the theories of ultra distributions and Fourier hyperfunctions are given in addition to some deeper results for Schwartz distributions thus providing a rather comprehensive introduction to the theory of generalized functions Basic properties and methods for distributions are developed with applications to constant coefficient ODEs and PDEs The relation between distributions and holomorphic functions is considered as well as basic properties of Sobolev spaces Part II Fundamental facts about Hilbert spaces The basic theory of linear bounded and unbounded operators in Hilbert spaces and special classes of linear operators compact Hilbert Schmidt trace class and Schrödinger operators as needed in quantum physics and quantum information theory are explored This section also contains a detailed spectral analysis of all major classes of linear operators including completeness of generalized eigenfunctions as well as of completely positive mappings in particular quantum operations Part III Direct methods of the calculus of variations and their applications to boundary and eigenvalue problems for linear and nonlinear partial differential operators The authors conclude with a discussion of the Hohenberg Kohn variational principle The appendices contain proofs of more general and deeper results including completions basic facts about metrizable Hausdorff locally convex topological vector spaces Baire's fundamental results and their main consequences and bilinear functionals

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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 Jacaranda Maths Quest 11 Mathematical Methods VCE Units 1 and 2 3e learnON and Print Sue Michell, Beverly Langsford Willing, 2022-11-21 Jacaranda Maths Quest 11 Mathematical Methods VCE Units 1 and 2 Everything your students need to succeed The best Mathematics series for the new VCE Study Design Developed by expert Victorian teachers for VCE students Get exam ready past VCAA exam questions all since 2013 Students can start preparing from lesson one with past VCAA exam questions embedded in every lesson Practice customisable SACs available for all Units to build student competence and confidence Learn online with Australia's most powerful learning platform learnON Be confident your students can get unstuck and progress in class or at home For every question online they receive immediate feedback and fully worked solutions Teacher led videos to learn and re learn Instant reports make tracking progress simple Combine units flexibly with the Jacaranda Supercourse An Australian first build the course you've always wanted with the Jacaranda Supercourse You can combine all Methods Units 1 to 4 so students can move backwards and forwards freely Or Methods and General Units 1 2 for when students switch courses The possibilities are endless **Jacaranda Maths Quest 12 Mathematical Methods VCE Units 3 and 4 3e learnON and Print** Margaret Swale, Libby Kempton, 2022-11-21 Jacaranda Maths Quest 12 Mathematical Methods VCE Units 3 and 4 Everything your students need to succeed The best Mathematics series for the new VCE Study Design Developed by expert Victorian teachers for VCE students Get exam ready past VCAA exam questions all since 2013 Students can start preparing from lesson one with past VCAA exam questions embedded in every lesson Practice customisable SACs available for all Units to build student competence and confidence Learn online with Australia's most powerful learning platform learnON Be confident your students can get unstuck and progress in class or at home For every question online they receive immediate feedback and fully worked solutions Teacher led videos to learn and re learn Instant reports make tracking progress simple

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