

Trigonometric Identities

Quotient Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

Reciprocal Identities

$$\cot \theta = \frac{1}{\tan \theta}$$

$$\operatorname{cosec} \theta = \frac{1}{\sin \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

Pythagorean Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$1 + \tan^2 \theta = \sec^2 \theta$$

$$1 + \cot^2 \theta = \operatorname{cosec}^2 \theta$$

Co-Function Identities

$$\cos \left[\frac{\pi}{2} - \theta \right] = \sin \theta$$

$$\sin \left[\frac{\pi}{2} - \theta \right] = \cos \theta$$

$$\cot \left[\frac{\pi}{2} - \theta \right] = \tan \theta$$

$$\tan \left[\frac{\pi}{2} - \theta \right] = \cot \theta$$

$$\sec \left[\frac{\pi}{2} - \theta \right] = \operatorname{cosec} \theta$$

$$\operatorname{cosec} \left[\frac{\pi}{2} - \theta \right] = \sec \theta$$

Even-Odd Identities

$$\sin(-\theta) = -\sin \theta$$

$$\cos(-\theta) = \cos \theta$$

$$\tan(-\theta) = -\tan \theta$$

$$\cot(-\theta) = -\cot \theta$$

$$\sec(-\theta) = \sec \theta$$

$$\operatorname{cosec}(-\theta) = -\operatorname{cosec} \theta$$

Half-Angle Formulas

$$\sin \left[\frac{\theta}{2} \right] = \pm \sqrt{\frac{1 - \cos \theta}{2}}$$

$$\cos \left[\frac{\theta}{2} \right] = \pm \sqrt{\frac{1 + \cos \theta}{2}}$$

$$\begin{aligned} \tan \left[\frac{\theta}{2} \right] &= \frac{1 - \cos \theta}{\sin \theta} \\ &= \frac{\sin \theta}{1 + \cos \theta} \\ &= \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}} \end{aligned}$$

Trigonometric Identities Form G

The Princeton Review, David Khan



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Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen

Kleinert, 2004-03-05 This is the third significantly expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals. It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom. The solutions have become possible by two major advances. The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman's famous formula to include singular attractive $1/r$ and $1/r^2$ potentials. The second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations. In addition to the time sliced definition the author gives a perturbative definition of path integrals which makes them invariant under coordinate transformations. A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely integrals over products of distributions. The powerful Feynman-Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent expansions. The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals. Tunneling processes are treated in detail. The results are used to determine the lifetime of supercurrents, the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions. A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers. A corresponding extension of large order perturbation theory also applies now to small orders. Special attention is devoted to path integrals with topological restrictions. These are relevant to the understanding of the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics. The Chern-Simons theory of particles with fractional statistics anyone is introduced and applied to explain the fractional quantum Hall effect. The relevance of path integrals to financial markets is discussed and improvements of the famous Black-Scholes formula for option prices are given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions. The author's other book on Critical Properties of 4 Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions. Request Inspection Copy

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Problems and Theorems in Analysis II George Polya, Gabor Szegő, 2012-12-06 Few mathematical books are worth translating 50 years after original publication Polya Szegő is one It was published in German in 1924 and its English edition was widely acclaimed when it appeared in 1972 In the past more of the leading mathematicians proposed and solved problems than today Their collection of the best in analysis is a heritage of lasting value

Problems and Theorems in Analysis Georg Polya, Gabor Szegő, 2013-03-14

Cosine-/Sine-Modulated Filter Banks Vladimir Britanak, K. R. Rao, 2017-08-02 This book covers various algorithmic developments in the perfect reconstruction cosine sine modulated filter banks TDAC MDCT MDST or MLT MCLT

low delay MDCT complex exponential cosine sine modulated QMF filter banks and near perfect reconstruction QMF banks pseudo QMF banks in detail including their general mathematical properties matrix representations fast algorithms and various methods to integer approximations being recently a new transform technology for lossless audio coding Each chapter will contain a number of examples and will conclude with problems and exercises The book reflects the research efforts activities and achieved results of the authors in the time period over the last 20 years Numerical Recipes 3rd Edition William H. Press, 2007-09-06 Do you want easy access to the latest methods in scientific computing This greatly expanded third edition of Numerical Recipes has it with wider coverage than ever before many new expanded and updated sections and two completely new chapters The executable C code now printed in colour for easy reading adopts an object oriented style particularly suited to scientific applications Co authored by four leading scientists from academia and industry Numerical Recipes starts with basic mathematics and computer science and proceeds to complete working routines The whole book is presented in the informal easy to read style that made earlier editions so popular Highlights of the new material include a new chapter on classification and inference Gaussian mixture models HMMs hierarchical clustering and SVMs a new chapter on computational geometry covering KD trees quad and octrees Delaunay triangulation and algorithms for lines polygons triangles and spheres interior point methods for linear programming MCMC an expanded treatment of ODEs with completely new routines and many new statistical distributions For support or to subscribe to an online version please visit www.nr.com

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