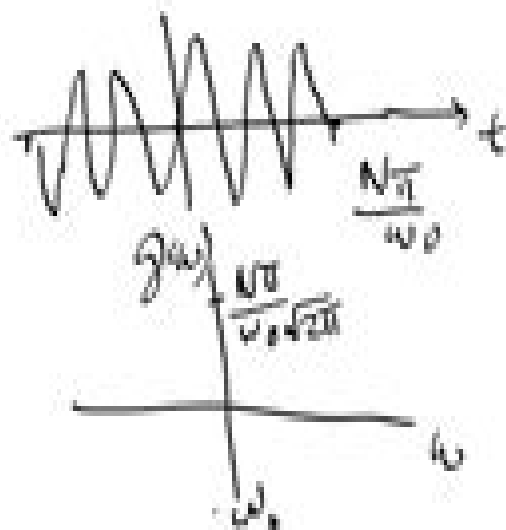


Ex. 20.2.4 $f(t) = \begin{cases} \sin \omega_0 t, & |t| < \frac{N\pi}{\omega_0} \\ 0, & \text{otherwise} \end{cases}$

$$g_s(\omega) = \sqrt{\frac{2}{\pi}} \int_0^{\frac{N\pi}{\omega_0}} \sin \omega_0 t \sin \omega t dt$$

$$= \frac{1}{\sqrt{2\pi}} \int_0^{\frac{N\pi}{\omega_0}} \left\{ \cos [(\omega_0 - \omega)t] - \cos [(\omega_0 + \omega)t] \right\} dt$$

$$= \frac{1}{\sqrt{2\pi}} \left\{ \frac{\sin [(\omega_0 - \omega)N\pi/\omega_0]}{\omega_0 - \omega} - \frac{\sin [(\omega_0 + \omega)N\pi/\omega_0]}{\omega_0 + \omega} \right\}$$



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The Structures of Mathematical Physics Steven P. Starkovich, 2021-07-21 This textbook serves as an introduction to groups rings fields vector and tensor spaces algebras topological spaces differentiable manifolds and Lie groups mathematical structures which are foundational to modern theoretical physics It is aimed primarily at undergraduate students in physics and mathematics with no previous background in these topics Applications to physics such as the metric tensor of special relativity the symplectic structures associated with Hamilton's equations and the Generalized Stokes's Theorem appear at appropriate places in the text Worked examples end of chapter problems many with hints and some with answers and guides to further reading make this an excellent book for self study Upon completing this book the reader will be well prepared to delve more deeply into advanced texts and specialized monographs in theoretical physics or mathematics

Mathematics for Physical Science and Engineering Frank E. Harris, 2014-05-24 Mathematics for Physical Science and Engineering is a complete text in mathematics for physical science that includes the use of symbolic computation to illustrate the mathematical concepts and enable the solution of a broader range of practical problems This book enables professionals to connect their knowledge of mathematics to either or both of the symbolic languages Maple and Mathematica The book begins by introducing the reader to symbolic computation and how it can be applied to solve a broad range of practical problems Chapters cover topics that include infinite series complex numbers and functions vectors and matrices vector analysis tensor analysis ordinary differential equations general vector spaces Fourier series partial differential equations complex variable theory and probability and statistics Each important concept is clarified to students through the use of a simple example and often an illustration This book is an ideal reference for upper level undergraduates in physical chemistry physics engineering and advanced applied mathematics courses It will also appeal to graduate physicists engineers and related specialties seeking to address practical problems in physical science Clarifies each important concept to students through the use of a simple example and often an illustration Provides quick reference for students through multiple appendices including an overview of terms in most commonly used applications Mathematica Maple Shows how symbolic computing enables solving a broad range of practical problems

Partial Differential Equations Kartikeya Dutta, 2025-02-20 Partial Differential Equations A Detailed Exploration is a comprehensive

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Mathematical Methods for Physicists George Brown Arfken,Hans-Jurgen Weber,2001 This volume contains the essential mathematical tools and techniques used to solve problems in physics A useful textbook for all serious undergraduate students of physics This fifth edition has a new art programme throughout the book additional new and improved exercises updated references for computational techniques for using Numerical Recipes and Mathematica TM and there is a reference compendium for important mathematical methods used in physics

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