

James Stewart Essential Calculus 2nd Edition

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this book is for instructors who think that most calculus textbooks are too long in writing the book james stewart asked himself what is essential for a three semester calculus course for scientists and engineers essential calculus second edition offers a concise approach to teaching calculus that focuses on major concepts and supports those concepts with precise definitions patient explanations and carefully graded problems the book is only 900 pages two thirds the size of stewart s other calculus texts and yet it contains almost all of the same topics the author achieved this relative brevity primarily by condensing the exposition and by putting some of the features on the book s website stewartcalculus.com despite the more compact size the book has a modern flavor covering technology and incorporating material to promote conceptual understanding though not as prominently as in stewart s other books essential calculus features the same attention to detail eye for innovation and meticulous accuracy that have made stewart s textbooks the best selling calculus texts in the world important notice media content referenced within the product description or the product text may not be available in the ebook version

advanced calculus is intended as a text for courses that furnish the backbone of the student s undergraduate education in mathematical analysis the goal is to rigorously present the fundamental concepts within the context of illuminating examples and stimulating exercises this book is self contained and starts with the creation of basic tools using the completeness axiom the continuity differentiability integrability and power series representation properties of functions of a single variable are established the next few chapters describe the topological and metric properties of euclidean space these are the basis of a rigorous treatment of differential calculus including the implicit function theorem and lagrange multipliers for mappings between euclidean spaces and integration for functions of several real variables pub desc

this much anticipated second edition of the most successful new calculus text published in the last two decades retains the best of the first edition while introducing important advances and refinements authors briggs cochran and gillett build from a foundation of meticulously crafted exercise sets then draw students into the narrative through writing that reflects the voice of the instructor examples that are stepped out and thoughtfully

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drawing on their decades of teaching experience william briggs and lyle cochran have created a calculus text that carries the teacher's voice beyond the classroom that voice evident in the narrative the figures and the questions interspersed in the narrative is a master teacher leading readers to deeper levels of understanding the authors appeal to readers geometric intuition to introduce fundamental concepts and lay the foundation for the more rigorous development that follows comprehensive exercise sets have received praise for their creativity quality and scope note this is the standalone book if you want the book access card order the isbn below 0321665880 9780321665881 multivariable calculus plus mymathlab access card package package consists of 0321431308 9780321431301

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Multivariable Calculus: Linear Algebra and Differential Equations, Second Edition, contains a comprehensive coverage of the study of advanced calculus, linear algebra, and differential equations for sophomore college students. The text includes a large number of examples, exercises, cases, and applications for students to learn calculus well. Also included is the history and development of calculus. The book is divided into five parts. The first part includes multivariable calculus material. The second part is an introduction to linear algebra. The third part of the book combines techniques from calculus and linear algebra and contains discussions of some of the most elegant results in calculus, including Taylor's theorem in n variables, the multivariable mean value theorem, and the implicit function theorem. The fourth section contains detailed discussions of first-order and linear second-order equations. Also included are optional discussions of electric circuits and vibratory motion. The final section discusses Taylor's theorem, sequences, and series. The book is intended for sophomore college students of advanced calculus.

Second Year Calculus: From Celestial Mechanics to Special Relativity covers multi-variable and vector calculus, emphasizing the historical physical problems which gave rise to the concepts of calculus. The book carries us from the birth of the mechanized view of the world in Isaac Newton's mathematical principles of natural philosophy, in which mathematics becomes the ultimate tool for modelling physical reality, to the dawn of a radically new and often counter-intuitive age in Albert Einstein's special theory of relativity, in which it is the mathematical model which suggests new aspects of that reality. The development of this process is discussed from the modern viewpoint of differential forms. Using this concept, the student learns to compute orbits and rocket trajectories, model flows and force fields, and derive the laws of electricity and magnetism. These exercises and observations of mathematical symmetry enable the student to better understand the interaction of physics.

and mathematics

introductory calculus second edition with analytic geometry and linear algebra is an introductory text on calculus and includes topics related to analytic geometry and linear algebra functions and graphs are discussed along with derivatives and antiderivatives curves in the plane infinite series and differential equations comprised of 15 chapters this book begins by considering vectors in the plane the straight line and conic sections the next chapter presents some of the basic facts about functions the formal definition of a function and the notion of a graph of a function subsequent chapters examine the derivative as a linear transformation higher derivatives and the mean value theorem applications of graphs and the definite integral transcendental functions and how to find an antiderivative are also discussed together with the use of parametric equations to determine the curve in a plane how to solve linear equations functions of several variables and the derivative and integration of these functions and problems that lead to differential equations this monograph is intended for students taking a two or three semester course in introductory calculus

this package consists of the textbook plus an access kit for mymathlab mystatlab drawing on their decades of teaching experience william briggs and lyle cochran have created a calculus text that carries the teacher's voice beyond the classroom that voice evident in the narrative the figures and the questions interspersed in the narrative is a master teacher leading readers to deeper levels of understanding the authors appeal to readers geometric intuition to introduce fundamental concepts and lay the foundation for the more rigorous development that follows comprehensive exercise sets have received praise for their creativity quality and scope to further support student learning the ebook for the text features interactive figures that can be manipulated to shed light on difficult to convey concepts mymathlab provides a wide range of homework tutorial and assessment tools that make it easy to manage your course online

michael sullivan and kathleen miranda have written a contemporary calculus textbook that instructors will respect and students can use consistent in its use of language and notation sullivan miranda's calculus offers clear and precise mathematics at an appropriate level of rigor the authors help students learn calculus conceptually while also emphasizing computational and problem solving skills the book contains a wide array of problems including engaging challenge problems and applied exercises that model the physical sciences life sciences economics and other disciplines algebra weak students will benefit from marginal annotations that help strengthen algebraic understanding the many references to review material and extensive practice exercises strong media offerings include interactive figures and online homework sullivan miranda's calculus has been built with today's instructors and students in mind

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this text is aimed at future engineers and professional scientists applications modules at

the ends of chapters demonstrate the need to relate theoretical mathematical concepts to real world examples these modules examine problem solving as it occurs in industry or research settings such as the use of wavelets in music and voice synthesis and in fbi fingerprint analysis and storage

this new text presents calculus with solid mathematical precision but with an everyday sensibility that puts the main concepts in clear terms it is rigorous without being inaccessible and clear without being too informal it has the perfect balance for instructors and their students also available in a late transcendentals version 0 7167 6911 5

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calculus is designed for the typical two or three semester general calculus course

incorporating innovative features to enhance student learning the book guides students through the core concepts of calculus and helps them understand how those concepts apply to their lives and the world around them due to the comprehensive nature of the material we are offering the book in three volumes for flexibility and efficiency volume 3 covers parametric equations and polar coordinates vectors functions of several variables multiple integration and second order differential equations

this book modern in its writing style as well as in its applications contains numerous exercises both skill oriented and applications real data problems and a problem solving method the book features exercises based on data from the world wide technology options for those who wish to use a graphing calculator review boxes strategic checkpoints interactive activities section summaries and projects and chapter openers and reviews for anyone who wants to see and understand how mathematics are used in everyday life

this is the the complete student text that includes annotations for teachers as well as wrap around margins in these margins teachers will find notes from co author paul battaglia such as planning guides support resources and more

covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology the authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations the book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

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includes clear explanations illustrative examples and exercises to reinforce learning whether you re a student building a solid understanding of probability theory a researcher exploring advanced topics or a practitioner applying probabilistic methods to solve real world problems this book is an invaluable resource we equip readers with the knowledge and tools necessary to tackle complex problems make informed decisions and explore probability theory s rich landscape with confidence

this volume introduces techniques and theorems of riemannian geometry and opens the way to advanced topics the text combines the geometric parts of riemannian geometry with analytic aspects of the theory and reviews recent research the updated second edition includes a new coordinate free formula that is easily remembered the koszul formula in disguise an expanded number of coordinate calculations of connection and curvature general fomulas for curvature on lie groups and submersions variational calculus integrated into the text allowing for an early treatment of the sphere theorem using a forgotten proof by berger recent results regarding manifolds with positive curvature

combinatorial enumeration is a readily accessible subject full of easily stated but sometimes tantalizingly difficult problems this book leads the reader in a leisurely way from basic notions of combinatorial enumeration to a variety of topics ranging from algebra to statistical physics the book is organized in three parts basics methods and topics the aim is to introduce readers to a fascinating field and to offer a sophisticated source of information for professional mathematicians desiring to learn more there are 666 exercises and every chapter ends with a highlight section discussing in detail a particularly beautiful or famous result

this book provides an introduction to lie groups lie algebras and repre sentation theory aimed at graduate students in mathematics and physics although there are already several excellent books that cover many of the same topics this book has two distinctive features that i hope will make it a useful addition to the literature first it treats lie groups not just lie alge bras in a way that minimizes the amount of manifold theory needed thus i neither assume a prior course on differentiable manifolds nor provide a con densed such course in the beginning chapters second this book provides a gentle introduction to the machinery of semi simple groups and lie algebras by treating the representation theory of su_2 and su_3 in detail before going to the general case this allows the reader to see roots weights and the weyl group in action in simple cases before confronting the general theory the standard books on lie theory begin immediately with the general case a smooth manifold that is also a group the lie algebra is then defined as the space of left invariant vector fields and the exponential mapping is defined in terms of the flow along such vector fields this approach is undoubtedly the right one in the long run but it is rather abstract for a reader encountering such things for the first time

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Understanding the Ammonia Formula: A Simple Guide

Ammonia, a pungent-smelling gas with a wide range of applications, is a crucial compound in various industries and even plays a vital role in biological processes. Understanding its chemical formula and properties is key to appreciating its significance. This article simplifies the concept of the ammonia formula and explores its related aspects.

1. The Basic Formula: NH_3

The chemical formula for ammonia is simply NH_3 . This means each molecule of ammonia consists of one nitrogen atom (N) bonded to three hydrogen atoms (H). This simple formula hides a wealth of chemical and physical properties. The bonds between the nitrogen and hydrogen atoms are covalent bonds, meaning the atoms share electrons to achieve a stable electron configuration. Nitrogen, with five valence electrons, shares three of them with three hydrogen atoms, each contributing one electron to the shared pair. This leaves one lone pair of electrons on the nitrogen atom, which contributes significantly to ammonia's reactivity and properties.

2. Molecular Geometry and Polarity

The NH_3 molecule isn't linear; instead, it adopts a trigonal pyramidal geometry. Imagine a pyramid with the nitrogen atom at the apex and the three hydrogen atoms forming the base. This shape arises because of the lone pair of electrons on the nitrogen atom, which repels the bonding pairs, pushing the hydrogen atoms slightly closer together. This asymmetrical geometry, coupled with the difference in electronegativity between nitrogen and hydrogen, makes ammonia a polar molecule. Nitrogen is more electronegative than hydrogen, meaning it attracts the shared electrons more strongly. This creates a partial negative charge (δ^-) on the nitrogen atom and partial positive charges (δ^+) on the hydrogen atoms. This polarity is crucial for ammonia's ability to dissolve in water and participate in hydrogen bonding.

3. Ammonia's Properties: A Result of its

Formula

The NH_3 formula directly influences ammonia's properties: Solubility: Ammonia's polarity and ability to form hydrogen bonds with water make it highly soluble in water. This is why ammonia is often found in aqueous solutions. Boiling Point: Relatively low boiling point (-33.34°C) compared to other compounds of similar molecular weight. This is because hydrogen bonding between ammonia molecules is weaker than in water. Alkalinity: Ammonia acts as a weak base in water, accepting a proton (H^+) from water to form ammonium ions (NH_4^+) and hydroxide ions (OH^-). This is why ammonia solutions are alkaline and have a characteristic pungent smell. Reactivity: The lone pair of electrons on the nitrogen atom makes ammonia a good nucleophile, meaning it can readily donate electrons to other molecules, participating in many chemical reactions.

4. Practical Applications

The versatility of ammonia stems directly from its formula and properties: Fertilizers: Ammonia is a crucial component in the production of nitrogen-based fertilizers like ammonium nitrate and urea, vital for agricultural productivity. The nitrogen atom provides the essential nutrient for plant growth. Cleaning Products: Ammonia's alkaline nature makes it effective in cleaning agents, capable of dissolving grease and grime. Refrigeration: Ammonia's ability to absorb heat during evaporation makes it a useful refrigerant in some industrial applications. Pharmaceuticals: Ammonia is used as a reactant or solvent in the synthesis of various pharmaceuticals. Industrial Processes: It's used in the production of various chemicals, including nitric acid and nylon.

5. Key Insights and Takeaways

Understanding the simple NH_3 formula unlocks a deeper comprehension of ammonia's complex properties and vast applications. Its polarity, geometry, and reactivity are all direct consequences of this seemingly straightforward formula. This knowledge is valuable across various scientific disciplines, from chemistry and biology to agriculture and engineering.

FAQs:

1. Is ammonia dangerous? Yes, anhydrous ammonia is highly toxic and corrosive. Inhaling it can cause severe respiratory problems, and skin contact can lead to burns. Dilute

solutions are less hazardous but should still be handled with care. 2. How is ammonia produced industrially? The Haber-Bosch process is the primary industrial method for ammonia synthesis, reacting nitrogen gas (N_2) and hydrogen gas (H_2) under high pressure and temperature with a catalyst. 3. What is the difference between ammonia and ammonium? Ammonia (NH_3) is a neutral molecule, while ammonium (NH_4^+) is a positively charged ion formed when ammonia accepts a proton. 4. Can ammonia be found naturally? Yes, ammonia is naturally produced by the decomposition of organic matter and is also present in small amounts in the atmosphere. 5. What is the pH of ammonia solution? The pH of an ammonia solution is greater than 7, indicating its alkaline nature. The exact pH depends on the concentration of the ammonia solution.

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