

a manga guide to calculus

A Manga Guide to Calculus: Unlocking the Secrets of Infinitesimal Change Through Comics

Description:

Learning calculus can often feel like navigating a dense forest of abstract concepts and complex formulas. For many students, the traditional textbook approach proves daunting, leading to frustration and a lack of understanding. "A Manga Guide to Calculus," however, offers a revolutionary approach. This unique book utilizes the engaging storytelling and visually appealing format of manga to demystify the core principles of calculus. By weaving mathematical concepts into a captivating narrative, this guide makes learning calculus accessible and enjoyable for students of all levels, from high school beginners to college undergraduates seeking a supplementary resource. It simplifies complicated ideas, turning abstract formulas into tangible, relatable scenarios, making even the most challenging theorems feel approachable. This "Manga Guide to Calculus" is not simply a simplified textbook; it's a dynamic learning experience that fosters a deep understanding of calculus through compelling characters and visually intuitive explanations. "A Manga Guide to Calculus" promises to transform the learning experience, making this traditionally difficult subject significantly more manageable and even fun.

Author: Dr. Hiroshi Tanaka (Fictional Author Profile)

Dr. Hiroshi Tanaka, PhD, is a renowned mathematician and educator with over 20 years of experience teaching calculus at both the undergraduate and graduate levels. His innovative teaching methods, focusing on visual aids and relatable analogies, have garnered him widespread acclaim. Dr. Tanaka holds a PhD in Mathematics from Tokyo University and has authored numerous peer-reviewed publications on mathematical pedagogy. His passion for making complex mathematical concepts accessible to a wider audience led him to create "A Manga Guide to Calculus," a project he believes will revolutionize how students approach this crucial subject. His background in manga illustration further contributes to the book's engaging and approachable style.

Keyword: a manga guide to calculus

Summary:

"A Manga Guide to Calculus" presents a comprehensive introduction to differential and integral calculus, employing the engaging storytelling format of Japanese manga. The book meticulously covers key concepts such as limits, derivatives, integrals, and applications in various fields. Instead of relying solely on dense mathematical formulas, the book utilizes a narrative structure where characters face mathematical challenges and solve them through the application of calculus principles. The manga format visually represents abstract concepts, such as slopes of tangent lines and areas under curves, making them easier to grasp. The book breaks down complex topics into smaller, manageable chunks, presenting each concept with clear explanations and numerous

examples. Interactive exercises and practice problems are interspersed throughout the narrative, reinforcing understanding and encouraging active learning. "A Manga Guide to Calculus" is not just a passive reading experience; it's a journey of discovery where readers actively participate in the learning process alongside the characters in the manga. The book's focus is on building intuition and fostering a conceptual understanding, making it an ideal resource for those who struggle with traditional calculus textbooks. The aim is not just to teach students how to solve calculus problems, but also why these techniques work, cultivating a deeper and more lasting understanding.

Publisher: TokyoPop Educational (Fictional Publisher)

TokyoPop Educational is a leading publisher of innovative educational materials, known for its commitment to blending engaging storytelling with rigorous academic content. With a strong reputation for creating high-quality textbooks and supplementary learning resources, TokyoPop Educational has consistently pushed the boundaries of educational publishing, aiming to make learning more accessible and enjoyable for students of all ages and backgrounds. Their expertise in manga publishing further complements their mission of providing innovative and engaging educational materials.

Editor: Akiko Sato (Fictional Editor Profile)

Akiko Sato is a senior editor at TokyoPop Educational with extensive experience in educational publishing and a deep understanding of mathematics. Her background in mathematics education ensures the accuracy and clarity of the mathematical content presented in "A Manga Guide to Calculus." Akiko's meticulous editing ensures that the book is not only mathematically sound but also engaging and accessible to a broad readership. Her expertise in manga storytelling ensures the narrative is both compelling and pedagogically effective.

A Deep Dive into the Chapters of "A Manga Guide to Calculus"

"A Manga Guide to Calculus" is structured to provide a gradual and engaging learning experience. It begins with the foundational concepts, building progressively towards more advanced topics. Here's a glimpse into the book's structure:

Part 1: Foundations of Calculus: This section lays the groundwork, introducing fundamental concepts like functions, limits, and continuity. The manga format effectively illustrates these concepts visually, using graphs and diagrams to bring abstract ideas to life. Characters within the story encounter real-world scenarios requiring them to understand these fundamental principles. For example, a scene might depict characters analyzing the trajectory of a projectile, naturally introducing the concept of limits and rates of change.

Part 2: Differential Calculus: This section focuses on the core concepts of differential calculus, including derivatives, tangent lines, and rates of change. The manga creatively visualizes the concept of a derivative as the instantaneous rate of change, using examples such as the speed of a car or the slope of a curve. Complex concepts like implicit differentiation and related rates are made more accessible through interactive examples and problem-solving within the narrative.

Part 3: Applications of Differential Calculus: Here, the book explores various applications of differential calculus, covering topics like optimization problems (finding maximum and minimum values), related rates problems (exploring how changes in one variable affect other variables), and curve sketching. The manga utilizes captivating scenarios to illustrate these applications, making the learning process engaging and practical. For instance, optimization problems could involve maximizing the area of a garden or minimizing the cost of materials.

Part 4: Integral Calculus: This section introduces the fundamentals of integral calculus, covering topics such as Riemann sums, definite and indefinite integrals, the Fundamental Theorem of Calculus, and techniques of integration. The manga brings the abstract concept of integration to life by visualizing areas under curves and volumes of solids of revolution. Intuitive explanations, coupled with clear visualizations, help students grasp the connection between derivatives and integrals.

Part 5: Applications of Integral Calculus: This final section delves into the applications of integral calculus, covering topics like areas between curves, volumes of solids of revolution, and applications in physics and engineering. The book employs engaging examples to demonstrate the practicality of integral calculus, showcasing its real-world relevance. This section emphasizes problem-solving and applying learned concepts to diverse situations.

Conclusion:

"A Manga Guide to Calculus" offers a unique and effective approach to learning calculus. By harnessing the power of manga storytelling and visual learning, it transforms a notoriously challenging subject into an engaging and accessible experience. The book's carefully structured curriculum, combined with its interactive approach, makes it an invaluable resource for students of all backgrounds and learning styles. Whether you're a high school student taking your first calculus course or a college student seeking to solidify your understanding, "A Manga Guide to Calculus" is a powerful tool that can help you unlock the secrets of infinitesimal change and master this crucial area of mathematics. Its blend of rigorous mathematical content and captivating storytelling makes it a truly innovative contribution to the field of mathematics education.

FAQs:

1. Is this book suitable for complete beginners? Yes, "A Manga Guide to Calculus" starts with the fundamentals, making it perfect for beginners with little to no prior calculus knowledge.
1. Does the book cover both differential and integral calculus? Yes, it covers both differential and integral calculus comprehensively.
1. Are there practice problems included? Yes, numerous practice problems and exercises are integrated throughout the manga's narrative.

1. What makes this book different from traditional calculus textbooks? Its engaging manga format and visually intuitive explanations make complex concepts easier to understand and remember.
1. Is this book suitable for self-study? Absolutely! The clear explanations and interactive elements make it ideal for self-paced learning.
1. What level of mathematics is required before reading this book? A basic understanding of algebra and trigonometry is recommended.
1. Is this book only suitable for students? No, anyone interested in learning calculus, regardless of their background, can benefit from this book.
1. What kind of manga style is used in the book? The style is clean, clear, and easy to follow, prioritizing readability and understanding over intricate artistic detail.
1. Where can I purchase "A Manga Guide to Calculus"? You can find it at major online bookstores and select educational retailers.

Related Articles:

1. "Calculus Made Easy: A Manga Approach to Derivatives": Focuses specifically on differential calculus using a simplified manga approach.
1. "Conquering Integrals: A Manga Guide to Integration Techniques": This article delves deeper into the various integration methods, explained visually through manga.
1. "Calculus in Action: Real-World Applications in Manga": Showcases practical applications of

calculus in everyday situations presented through manga panels.

1. "The Manga Guide to Linear Algebra": A companion piece showing how linear algebra relates to and supports calculus concepts.
1. "Mastering Limits: A Manga-Style Guide to Limits and Continuity": A tutorial focusing specifically on the foundational concept of limits.
1. "A Visual Guide to the Fundamental Theorem of Calculus (Manga Style)": A detailed, illustrated explanation of the cornerstone theorem of calculus.
1. "Calculus for Artists: Applying Calculus to 2D and 3D Design (Manga Examples)": Expands into the use of calculus in graphic design and illustration.
1. "Calculus and Physics: Solving Problems with Manga Illustrations": Connects calculus concepts to the laws of physics using manga to visualize the solutions.
1. "Reviewing Calculus Concepts Through Manga: A Comprehensive Guide to Practice Problems": Provides additional practice exercises and solutions with manga-style explanations.

a manga guide to calculus: *The Manga Guide to Calculus* Hiroyuki Kojima, Shin Togami, Co Ltd Becom, 2009-08-01 Noriko is just getting started as a junior reporter for the Asagake Times. She wants to cover the hard-hitting issues, like world affairs and politics, but does she have the smarts for it? Thankfully, her overbearing and math-minded boss, Mr. Seki, is here to teach her how to analyze her stories with a mathematical eye. In *The Manga Guide to Calculus*, you'll follow along with Noriko as she learns that calculus is more than just a class designed to weed out would-be science majors. You'll see that calculus is a useful way to understand the patterns in physics, economics, and the world around us, with help from real-world examples like probability, supply and demand curves, the economics of pollution, and the density of Shochu (a Japanese liquor). Mr. Seki teaches Noriko how to: -Use differentiation to understand a function's rate of change -Apply the fundamental theorem of calculus, and grasp the relationship between a function's derivative and its integral -Integrate and differentiate trigonometric and other complicated functions -Use

multivariate calculus and partial differentiation to deal with tricky functions -Use Taylor Expansions to accurately imitate difficult functions with polynomials Whether you're struggling through a calculus course for the first time or you just need a painless refresher, you'll find what you're looking for in *The Manga Guide to Calculus*. This EduManga book is a translation from a bestselling series in Japan, co-published with Ohmsha, Ltd. of Tokyo, Japan.

a manga guide to calculus: *The Manga Guide to Physics* Hideo Nitta, Keita Takatsu, Co Ltd Trend, 2009-05-01 Megumi is an all-star athlete, but she's a failure when it comes to physics class. And she can't concentrate on her tennis matches when she's worried about the questions she missed on the big test! Luckily for her, she befriends Ryota, a patient physics geek who uses real-world examples to help her understand classical mechanics—and improve her tennis game in the process! In *The Manga Guide to Physics*, you'll follow alongside Megumi as she learns about the physics of everyday objects like roller skates, slingshots, braking cars, and tennis serves. In no time, you'll master tough concepts like momentum and impulse, parabolic motion, and the relationship between force, mass, and acceleration. You'll also learn how to: -Apply Newton's three laws of motion to real-life problems -Determine how objects will move after a collision -Draw vector diagrams and simplify complex problems using trigonometry -Calculate how an object's kinetic energy changes as its potential energy increases If you're mystified by the basics of physics or you just need a refresher, *The Manga Guide to Physics* will get you up to speed in a lively, quirky, and practical way.

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a manga guide to calculus: *The Manga Guide to Regression Analysis* Shin Takahashi, Iroha Inoue, Co Ltd Trend, 2016-05-01 Like a lot of people, Miu has had trouble learning regression analysis. But with new motivation—in the form of a handsome but shy customer—and the help of her brilliant café coworker Risa, she's determined to master it. Follow along with Miu and Risa in *The Manga Guide to Regression Analysis* as they calculate the effect of temperature on iced tea orders, predict bakery revenues, and work out the probability of cake sales with simple, multiple, and logistic regression analysis. You'll get a refresher in basic concepts like matrix equations, inverse functions, logarithms, and differentiation before diving into the hard stuff. Learn how to: -Calculate the regression equation -Check the accuracy of your equation with the correlation coefficient -Perform hypothesis tests and analysis of variance, and calculate confidence intervals -Make predictions using odds ratios and prediction intervals -Verify the validity of your analysis with diagnostic checks -Perform chi-squared tests and F-tests to check the goodness of fit Whether you're learning regression analysis for the first time or have just never managed to get your head around it, *The Manga Guide to Regression Analysis* makes mastering this tricky technique straightforward and fun.

a manga guide to calculus: *The Manga Guide to Electricity* Kazuhiro Fujitaki, Matsuda, Co Ltd

Trend, 2009-03-01 Rereko is just your average high-school girl from Electopia, the land of electricity, but she's totally failed her final electricity exam! Now she has to go to summer school on Earth. And this time, she has to pass. Luckily, her ever-patient tutor Hikaru is there to help. Join them in the pages of *The Manga Guide to Electricity* as Rereko examines everyday electrical devices like flashlights, heaters, and circuit breakers, and learns the meaning of abstract concepts like voltage, potential, current, resistance, conductivity, and electrostatic force. The real-world examples that you'll find in *The Manga Guide to Electricity* will teach you: -What electricity is, how it works, how it's created, and how it can be used -The relationship between voltage, current, and resistance (Ohm's law) -Key electrical concepts like inductance and capacitance -How complicated components like transformers, semiconductors, diodes, and transistors work -How electricity produces heat and the relationship between current and magnetic fields If thinking about how electricity works really fries your brain, let *The Manga Guide to Electricity* teach you all things electrical in a shockingly fun way.

a manga guide to calculus: *The Manga Guide to Statistics* Shin Takahashi, 2009-01-06 The *Manga Guide to Statistics* capitalizes on the international manga phenomenon. This first in a series of EduManga titles from No Starch Press (co-published with Ohmsha, Ltd. of Japan), *The Manga Guide to Statistics* uses manga to introduce the reader to the world of statistics. Rather than learning from a dry textbook, readers follow the animated adventures of Rui and her teacher, Mamoru Yamamoto, as Rui interacts with a colorful cast of characters. The book consists of seven chapters, each containing a cartoon, text to supplement the cartoon, an exercise and answer section, and a summary. Readers learn about working with numerical and categorical data; probability; relationships between two variables; tests of independence; even how to perform calculations in Microsoft Excel. Other titles in the series will cover topics like databases, electricity, and physics.

a manga guide to calculus: *The Manga Guide to Physiology* Etsuro Tanaka, Keiko Koyama, Becom Co., Ltd., 2015-11-01 Student nurse Kumiko has just flunked her physiology exam and has one last shot at passing her makeup test. Lucky for her, newbie health science professor Kaisei needs a guinea pig for his physiology lectures. Join Kumiko in *The Manga Guide to Physiology* as she examines the inner workings of the body while training hard for the campus marathon. You'll learn all about: -How the digestive system and the Citric Acid Cycle break food down into nutrients and energy -How the body regulates temperature and vital fluids -The body's powerful cell defense system, led by helper T cells and enforced by macrophages -The architecture of the central nervous system -The kidneys' many talents: blood filtration, homeostasis, and energy production You'll also gain insight into medical procedures like electrocardiograms, blood pressure tests, spirometry, and more. Whether you're cramming for a test like Kumiko or just want a refresher, *The Manga Guide to Physiology* is your fun, cartoon guide to the human body.

a manga guide to calculus: *The Manga Guide to Linear Algebra* Shin Takahashi, Iroha Inoue, Co Ltd Trend, 2012-05-01 Reiji wants two things in life: a black belt in karate and Misa, the girl of his dreams. Luckily, Misa's big brother is the captain of the university karate club and is ready to strike a deal: Reiji can join the club if he tutors Misa in linear algebra. Follow along in *The Manga Guide to Linear Algebra* as Reiji takes Misa from the absolute basics of this tricky subject through mind-bending operations like performing linear transformations, calculating determinants, and finding eigenvectors and eigenvalues. With memorable examples like miniature golf games and karate tournaments, Reiji transforms abstract concepts into something concrete, understandable, and even fun. As you follow Misa through her linear algebra crash course, you'll learn about: -Basic vector and matrix operations such as addition, subtraction, and multiplication -Linear dependence, independence, and bases -Using Gaussian elimination to calculate inverse matrices -Subspaces, dimension, and linear span -Practical applications of linear algebra in fields like computer graphics, cryptography, and engineering But Misa's brother may get more than he bargained for as sparks start to fly between student and tutor. Will Reiji end up with the girl—or just a pummeling from her oversized brother? Real math, real romance, and real action come together like never before in *The Manga Guide to Linear Algebra*.

a manga guide to calculus: The Manga Guide to Databases Mana Takahashi, Shoko Azuma, Co Ltd Trend, 2009-01-15 Want to learn about databases without the tedium? With its unique combination of Japanese-style comics and serious educational content, The Manga Guide to Databases is just the book for you. Princess Ruruna is stressed out. With the king and queen away, she has to manage the Kingdom of Kod's humongous fruit-selling empire. Overseas departments, scads of inventory, conflicting prices, and so many customers! It's all such a confusing mess. But a mysterious book and a helpful fairy promise to solve her organizational problems—with the practical magic of databases. In The Manga Guide to Databases, Tico the fairy teaches the Princess how to simplify her data management. We follow along as they design a relational database, understand the entity-relationship model, perform basic database operations, and delve into more advanced topics. Once the Princess is familiar with transactions and basic SQL statements, she can keep her data timely and accurate for the entire kingdom. Finally, Tico explains ways to make the database more efficient and secure, and they discuss methods for concurrency and replication. Examples and exercises (with answer keys) help you learn, and an appendix of frequently used SQL statements gives the tools you need to create and maintain full-featured databases. (Of course, it wouldn't be a royal kingdom without some drama, so read on to find out who gets the girl—the arrogant prince or the humble servant.) This EduManga book is a translation of a bestselling series in Japan, co-published with Ohmsha, Ltd., of Tokyo, Japan.

a manga guide to calculus: The Manga Guide to Cryptography Masaaki Mitani, Shinichi Sato, Idero Hinoki, Verte Corp., 2018-07-31 Cryptography is hard, but it's less hard when it's filled with adorable Japanese manga. The latest addition to the Manga Guide series, The Manga Guide to Cryptography, turns the art of encryption and decryption into plain, comic illustrated English. As you follow Inspector Jun Meguro in his quest to bring a cipher-wielding thief to justice, you'll learn how cryptographic ciphers work. (Ciphers are the algorithms at the heart of cryptography.) Like all books in the Manga Guide series, The Manga Guide to Cryptography is illustrated throughout with memorable Japanese manga as it dives deep into advanced cryptography topics, such as classic substitution, polyalphabetic, and transposition ciphers; symmetric-key algorithms like block and DES (Data Encryption Standard) ciphers; and how to use public key encryption technology. It also explores practical applications of encryption such as digital signatures, password security, and identity fraud countermeasures. The Manga Guide to Cryptography is the perfect introduction to cryptography for programmers, security professionals, aspiring cryptographers, and anyone who finds cryptography just a little bit hard.

a manga guide to calculus: The Manga Guide to Molecular Biology Masaharu Takemura, Sakura, Becom Co., Ltd., 2009-08-01 Rin and Ami have been skipping molecular biology class all semester, and Professor Moro has had enough—he's sentencing them to summer school on his private island. But they're in store for a special lesson. Using Dr. Moro's virtual reality machine to travel inside the human body, they'll get a close-up look at the fascinating world of molecular biology. Join them in The Manga Guide to Molecular Biology, and learn all about DNA, RNA, proteins, amino acids, and more. Along the way, you'll see chemical reactions first-hand and meet entertaining characters like Enzyme Man and Drinkzilla, who show how the liver metabolizes alcohol. Together with Ami and Rin, you'll learn all about: -The organelles and proteins inside cells, and how they support cellular functions -The processes of transcription and translation, and your genes' role in synthesizing proteins -The pieces that make up our genetic code, like nucleotides, codons, introns, and exons -The processes of DNA replication, mitosis and cytokinesis -Genetic technology like transduction and cloning, and the role of molecular biology in medicine Whether you need a molecular biology refresher or you're just fascinated by the science of life, The Manga Guide to Molecular Biology will give you a uniquely fun and informative introduction.

a manga guide to calculus: The Manga Guide to Microprocessors Michio Shibuya, Takashi Tonagi, Office Sawa, 2017-08-29 Ayumi is a world-class shogi (Japanese chess) player who can't be beaten—that is, until she loses to a powerful computer called the Shooting Star. Ayumi vows to find out everything she can about her new nemesis. Lucky for her, Yuu Kano, the genius programmer

behind the Shooting Star, is willing to teach her all about the inner workings of the microprocessor—the “brain” inside all computers, phones, and gadgets. Follow along with Ayumi in *The Manga Guide to Microprocessors* and you’ll learn about: -How the CPU processes information and makes decision -How computers perform arithmetic operations and store information -logic gates and how they’re used in integrated circuits -the Key components of modern computers, including registers, GPUs, and RAM -Assembly language and how it differs from high-level programming languages Whether you’re a computer science student or just want to understand the power of microprocessors, you’ll find what you need to know in *The Manga Guide to Microprocessors*.

a manga guide to calculus: *Cartoon Guide to Genetics* Larry Gonick, 1991-08-14 Have you ever asked yourself: Are spliced genes the same as mended Levis? Watson and Crick? Aren't they a team of British detectives? Plant sex? Can they do that? Is Genetic Mutation the name of one of those heavy metal bands? Asparagine? Which of the four food groups is that in? Then you need *The Cartoon Guide to Genetics* to explain the important concepts of classical and modern genetics—it's not only educational, it's funny too!

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a manga guide to calculus: The Manga Guide to the Universe Kenji Ishikawa, Kiyoshi Kawabata, Yutaka Hiiragi, Verte Corp Verte, 2011-07-15 Join Kanna, Kanta, Yamane, and Gloria in *The Manga Guide to the Universe* as they explore our solar system, the Milky Way, and faraway galaxies in search of the universe’s greatest mysteries: dark matter, cosmic expansion, and the Big Bang itself. As you rocket across the night sky, you’ll become acquainted with modern astronomy and astrophysics, as well as the classical discoveries and theories on which they’re built. You’ll even learn why some scientists believe finding extraterrestrial life is inevitable! You’ll also learn about: -Discoveries made by Copernicus, Galileo, Kepler, Hubble, and other seminal astronomers -Theories of the universe’s origins, evolution, and geometry -The ways you can measure and observe heavenly bodies with different telescopes, and how astronomers calculate distances in space -Stellar classifications and how the temperature, size, and magnitude of a star are related -Cosmic background radiation, what the WMAP satellite discovered, and scientists’ predictions for the future of the universe So dust off your flight suit and take a fantastic voyage through the cosmos in *The Manga Guide to the Universe*.

a manga guide to calculus: The Cartoon Guide to Calculus Larry Gonick, 2012-03-27 A complete—and completely enjoyable—new illustrated guide to calculus Master cartoonist Larry Gonick has already given readers the history of the world in cartoon form. Now, Gonick, a Harvard-trained mathematician, offers a comprehensive and up-to-date illustrated course in first-year calculus that demystifies the world of functions, limits, derivatives, and integrals. Using clear and helpful graphics—and delightful humor to lighten what is frequently a tough subject—he teaches all of the essentials, with numerous examples and problem sets. For the curious and confused alike, The Cartoon Guide to Calculus is the perfect combination of entertainment and education—a valuable supplement for any student, teacher, parent, or professional.

a manga guide to calculus: The Cartoon Guide to Algebra Larry Gonick, 2015-01-15 In this latest edition to the successful Cartoon Guide series, master cartoonist and former Harvard instructor Larry Gonick offers a complete and up-to-date illustrated course to help students understand and learn this core mathematical course taught in American schools. Using engaging graphics and lively humor, Gonick covers all of the algebra essentials, including linear equations, polynomials, quadratic equations, and graphing techniques. He also offers a concise overview of algebra's history and its many practical applications in modern life. Combining Gonick's unique ability to make difficult topics fun, interesting, and easy-to-understand—while still relaying the essential information in a clear, organized and accurate format—The Cartoon Guide to Algebra is an essential supplement for students of all levels, in high school, college, and beyond.

a manga guide to calculus: Engineering Mathematics K. A. Stroud, 2001 A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

a manga guide to calculus: Math for Deep Learning Ronald T. Kneusel, 2021-12-07 Math for Deep Learning provides the essential math you need to understand deep learning discussions, explore more complex implementations, and better use the deep learning toolkits. With Math for Deep Learning, you'll learn the essential mathematics used by and as a background for deep learning. You'll work through Python examples to learn key deep learning related topics in probability, statistics, linear algebra, differential calculus, and matrix calculus as well as how to implement data flow in a neural network, backpropagation, and gradient descent. You'll also use Python to work through the mathematics that underlies those algorithms and even build a fully-functional neural network. In addition you'll find coverage of gradient descent including variations commonly used by the deep learning community: SGD, Adam, RMSprop, and Adagrad/Adadelata.

a manga guide to calculus: Discrete Mathematics Oscar Levin, 2016-08-16 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the introduction to proof course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 360 exercises, including 230 with solutions and 130 more involved problems suitable for homework. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions.

a manga guide to calculus: The Joy of X Steven Henry Strogatz, 2012 A delightful tour of the greatest ideas of math, showing how math intersects with philosophy, science, art, business, current events, and everyday life, by an acclaimed science communicator and regular contributor to the New

York Times.

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