

The Manga Guide To Physics Hideo Nitta

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Mushoku Tensei: Jobless Reincarnation Vol. 1
Bluewater Productions

Whether you are stumped by the "commutative law" in algebra or a whiz at multiplying three-digit numbers in your head, this book opens the door to the wonders of mathematical imagining. By using simple language and intriguing illustrations drawn by her husband, Hugh, Lillian Lieber presents subtle mathematical concepts in an easy-to-understand way. Over sixty years after its release, this whimsical exploration of how to think in a mathematical mood will continue to delight math-lovers of all ages. Barry Mazur's new introduction is a tribute to the Liebers' influence on generations of mathematicians.

Hidden Wonders Kaiten Books LLC
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.

The Ninth Element Bluewater Productions

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.

The Nervous System No Starch Press

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!

The Manga Guide to Electricity No Starch Press

"The latest addition to No Starch Press's EduManga series, *The Manga Guide to Biochemistry* uses Japanese comics, clear explanations, and a charming storyline to explain the basics of biochemistry. This volume begins with a discussion of the cells that make up living beings, as well as the basics of protein synthesis, metabolism, energy production, and photosynthesis. It goes on to cover ecosystems and material cycles; the mechanisms of respiration; lipids, cholesterol, and blood types; and the roles and structures of enzymes and proteins. Readers explore genes and DNA; the differences between biochemistry and molecular biology; and the mystery surrounding the origin of the cell, all with the aid of original Manga cartoons. This EduManga title is co-published with Ohmsha, Ltd. of Tokyo, Japan, and is one in a series of translations from Ohmsha's bestselling Japanese originals"--

Cartoon Guide to Genetics Paul Dry Books
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, spiograms, 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.

We, the Drowned W. W. Norton & Company
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.

This Way to the Universe No Starch Press
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 Theoretical Physicist's Journey to the Edge of Reality No Starch Press
Recounts in graphic novel format the life and career of controversial American writer and philosopher Ayn Rand, best known for her novel "Atlas Shrugged," whose distinctive

views on economics and society have inspired many.

The Cartoon Guide to Chemistry No Starch Press

The hidden elegance in everyday objects and physical mechanisms, from crumpled paper to sandcastles. *Hidden Wonders* focuses on the objects that populate our everyday life--crumpled paper, woven fabric, a sand pile--but looks at them with a physicist's eye, revealing a hidden elegance in mundane physical mechanisms. In six chapters--Builders, Creating Shapes, Building with Threads, From Sand to Glass, Matter in Motion, and Fractures--the authors present brief stories, set in locales ranging from the Eiffel Tower to a sandcastle, that illustrate the little wonders hidden in the ordinary. A simple experiment that readers can perform at home concludes each story. More than 200 illustrations bring the stories to life. *The Manga Guide to Microprocessors* No Starch Press

"Just when an unemployed thirty-four-year-old otaku reaches a dead end in life and decides that it's time to turn over a new leaf—he gets run over by a truck and dies! Shockingly, he finds himself reborn into an infant's body in a strange, new world of swords and magic. His new identity is Rudeus Grayrat, but he still retains the memories of his previous life. Follow Rudeus from infancy to adulthood, as he struggles to redeem himself in a wondrous yet dangerous world."

Albert Einstein and the Theory of Relativity The Manga Guide to Physics

Scientific progress depends on good research, and good research needs good statistics. But statistical analysis is tricky to get right, even for the best and brightest of us. You'd be surprised how many scientists are doing it wrong. *Statistics Done Wrong* is a pithy, essential guide to statistical blunders in modern science that will show you how to keep your research blunder-free. You'll examine embarrassing errors and omissions in recent research, learn about the misconceptions and scientific politics that allow these mistakes to happen, and begin your quest to reform the way you and your peers do statistics. You'll find advice on: – Asking the right question, designing the right experiment, choosing the right statistical analysis, and sticking to the plan – How to think about p values, significance, insignificance, confidence intervals, and regression – Choosing the right sample size and avoiding false positives – Reporting your analysis and publishing your data and source code – Procedures to follow, precautions to take, and analytical software that can help Scientists: Read this concise, powerful guide to help you produce statistically sound research. Statisticians: Give this book to everyone you know. The first step toward statistics done right is *Statistics Done Wrong*.

Make Science Fun Penguin

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*. *Cats' Paws and Catapults* No Starch Press
If you have ever suspected that "heavy water" is the title of a bootleg Pink Floyd album, believed that surface tension is an anxiety disorder, or imagined that a noble gas is the result of a heavy meal at Buckingham Palace, then you need *The Cartoon Guide to Chemistry* to set you on the road to chemical literacy. You don't need to be a scientist to grasp these and many other complex ideas, because *The Cartoon Guide to Chemistry* explains them all: the history and basics of chemistry, atomic theory, combustion, solubility, reaction stoichiometry, the mole, entropy, and much more—all explained in simple, clear, and yes, funny illustrations. Chemistry will never be the same!

Survive! Inside the Human Body, Vol. 3 Seven Seas Entertainment

A complete overview of quantum mechanics, covering essential concepts and results, theoretical foundations, and applications. This undergraduate textbook offers a comprehensive overview of quantum mechanics, beginning with essential concepts and results, proceeding through the theoretical foundations that provide the field's conceptual framework, and concluding with the tools and applications students will need for advanced studies and for research. Drawn from lectures created for MIT undergraduates and for the popular MITx online course, “Mastering Quantum Mechanics,” the text presents the material in a modern and approachable manner while still including the traditional topics necessary for a well-rounded understanding of the subject. As the book progresses, the treatment gradually increases in difficulty, matching students' increasingly sophisticated understanding of the material. • Part 1 covers states and probability amplitudes, the Schrödinger equation, energy eigenstates of particles in potentials, the hydrogen atom, and spin one-half particles • Part 2 covers mathematical tools, the pictures of quantum mechanics and the axioms of quantum mechanics, entanglement and tensor products, angular momentum, and identical particles. • Part 3 introduces tools and techniques that help students master the theoretical concepts with a focus on approximation methods. • 236 exercises and 286 end-of-chapter problems • 248 figures

The Manga Guide to Biochemistry Del Rey
Everything's gone screwy at Tagai Academy. When the headmaster forces Minagi's entire class to study Einstein's theory of relativity over summer school, Minagi volunteers to go in their

place. There's just one problem: He's never even heard of relativity before! Luckily, Minagi has the plucky Miss Uruga to teach him. Follow along with *The Manga Guide to Relativity* as Minagi learns about the non-intuitive laws that shape our universe. Before you know it, you'll master difficult concepts like inertial frames of reference, unified spacetime, and the equivalence principle. You'll see how relativity affects modern astronomy and discover why GPS systems and other everyday technologies depend on Einstein's extraordinary discovery. *The Manga Guide to Relativity* also teaches you how to:

- Understand and use $E = mc^2$, the world's most famous equation
- Calculate the effects of time dilation using the Pythagorean theorem
- Understand classic thought experiments like the Twin Paradox, and see why length contracts and mass increases at relativistic speeds
- Grasp the underpinnings of Einstein's special and general theories of relativity

If the idea of bending space and time really warps your brain, let *The Manga Guide to Relativity* straighten things out. *Essentials, Theory, and Applications* No Starch Press

A contrarian scientist wrestles with the big questions that modern physics raises, and what physics says about the human condition. Not only can we not currently explain the origin of the universe, it is questionable we will ever be able to explain it. The notion that there are universes within particles, or that particles are conscious, is ascientific, as is the hypothesis that our universe is a computer simulation. On the other hand, the idea that the universe itself is conscious is difficult to rule out entirely. According to Sabine Hossenfelder, it is not a coincidence that quantum entanglement and vacuum energy have become the go-to explanations of alternative healers, or that people believe their deceased grandmother is still alive because of quantum mechanics. Science and religion have the same roots, and they still tackle some of the same questions: Where do we come from? Where do we go to? How much can we know? The area of science that is closest to answering these questions is physics. Over the last century, physicists have learned a lot about which spiritual ideas are still compatible with the laws of nature. Not always, though, have they stayed on the scientific side of the debate. In this lively, thought-provoking book, Hossenfelder takes on the biggest questions in physics: Does the past still exist? Do particles think? Was the universe made for us? Has physics ruled out free will? Will we ever have a theory of everything? She lays out how far physicists are on the way to answering these questions, where the current limits are, and what questions might well remain unanswerable forever. Her book offers a no-nonsense yet entertaining take on some of the toughest

riddles in existence, and will give the reader a solid grasp on what we know—and what we don't know.

The Physics Book New Holland Publishers (UK)

Explore the wondrous sea and the oddities of human nature in this international bestselling, thrilling epic novel of a Danish port town. Hailed in Europe as an instant classic, *We, the Drowned* is the story of the port town of Marstal, Denmark, whose inhabitants sailed the world from the mid-nineteenth century to the end of the Second World War. The novel tells of ships wrecked and blown up in wars, of places of terror and violence that continue to lure each generation; there are cannibals here, shrunken heads, prophetic dreams, and miraculous survivals. The result is a brilliant seafaring novel, a gripping saga encompassing industrial growth, the years of expansion and exploration, the crucible of the first half of the twentieth century, and most of all, the sea. Called “one of the most exciting authors in Nordic literature” by Henning Mankell, Carsten Jensen has worked as a literary critic and a journalist, reporting from China, Cambodia, Latin America, the Pacific Islands, and Afghanistan. He lives in Copenhagen and Marstal. “*We, the Drowned* sets sail beyond the narrow channels of the seafaring genre and approaches Tolstoy in its evocation of war's confusion, its power to stun victors and vanquished alike...A gorgeous, unsparing novel.” —Washington Post “A generational saga, a swashbuckling sailor's tale, and the account of a small town coming into modernity—both Melville and Steinbeck might have been pleased to read it.” —New Republic “Dozens of stories coalesce into an odyssey taut with action and drama and suffused with enough heart to satisfy readers who want more than the breakneck thrills of ships battling the elements.” —Publishers Weekly (starred)

The Manga Guide to Regression Analysis Harper Collins

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.

The Manga Guide to Linear Algebra Penguin

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.