

# About Project Euler

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## DISCOVERING OUR EXTENSIVE COLLECTION CONSISTING OF ABOUT PROJECT EULER

**The Most Beautiful Theorem in Mathematics** Springer

Intended to follow the usual introductory physics courses, this book has the unique feature of addressing the mathematical needs of sophomores and juniors in physics, engineering and other related fields. Many original, lucid, and relevant examples from the physical sciences, problems at the ends of chapters, and boxes to emphasize important concepts help guide the student through the material. Beginning with reviews of vector algebra and differential and integral calculus, the book continues with infinite series, vector analysis, complex algebra and analysis, ordinary and partial differential equations. Discussions of numerical analysis, nonlinear dynamics and chaos, and the Dirac delta function provide an introduction to modern topics in mathematical physics. This new edition has been made more user-friendly through organization into convenient, shorter chapters. Also, it includes an entirely new section on Probability and plenty of new material on tensors and integral transforms.

[Modeling and Application](#) "O'Reilly Media, Inc."

The SAGE Encyclopedia of Out-of-School Learning documents what the best research has revealed about out-of-school learning; what facilitates or hampers it; where it takes place most effectively; how we can encourage it to develop talents and strengthen communities; and why it matters. Key features include: Approximately 260 articles organized A-to-Z in 2 volumes available in a choice of electronic or print formats. Signed articles, specially commissioned for this work and authored by key figures in the field, conclude with Cross References and Further Readings to guide students to the next step in a research journey. Reader's Guide groups related articles within broad, thematic areas to make it easy for readers to spot additional relevant articles at a glance. Detailed Index, the Reader's Guide, and Cross References combine for search-and-browse in the electronic version. Resource Guide points to classic books, journals, and web sites, including those of key associations.

[Learn DSA Without Writing a Single Line of Code](#) No Starch Press

This book presents computer programming as a key method for solving mathematical problems. There are two versions of the book, one for MATLAB and one for Python. The book was inspired by the Springer book TCSE 6: A Primer on Scientific Programming with Python (by Langtangen), but the style is more accessible and concise, in keeping with the needs of engineering students. The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses. The emphasis is on generic algorithms, clean design of programs, use of functions, and automatic tests for verification.

*Use Programming to Explore Algebra, Statistics, Calculus, and More!* John Wiley & Sons

Functional programming languages like F#, Erlang, and Scala are attracting attention as an efficient way to handle the new requirements for programming multi-processor and high-availability applications. Microsoft's new F# is a true functional language and C# uses functional language features for LINQ and other recent advances. Real-World Functional Programming is a unique tutorial that explores the functional programming model through the F# and C# languages. The clearly presented ideas and examples teach readers how functional programming differs from other approaches. It explains how ideas look in F#—a functional language—as well as how they can be successfully used to solve programming problems in C#. Readers build on what they know about .NET and learn where a functional approach makes the most sense and how to apply it effectively in those cases. The reader should have a good working knowledge of C#. No prior exposure to F# or functional programming is required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

**Sneaky Math: A Graphic Primer with Projects** Packt Publishing Ltd

Many people fear math and numbers, even Barbie, who famously said "Math class is tough" in her controversial 1992 talking doll version. But in Sneaky Math, Cy Tymony takes tough and turns it into triumph. He shows us how math is all around us through intriguing and easy projects, including 20 pass-along tools to complement math education programs. The book is divided into seven sections: 1. Fundamentals of Numbers and Arithmetic 2. Algebra Primer 3. Geometry Primer 4. Trigonometry Primer 5. Calculus Primer 6. Sneaky Math Challenges, Tricks, and Formulas 7. Resources

**F# 4.0 Design Patterns** D C Heath & Company

Modern number theory began with the work of Euler and Gauss to understand and extend the many unsolved questions left behind by Fermat. In the course of their investigations, they uncovered new phenomena in need of explanation, which over time led to the discovery of field theory and its

intimate connection with complex multiplication. While most texts concentrate on only the elementary or advanced aspects of this story, Primes of the Form  $x^2 + ny^2$  begins with Fermat and explains how his work ultimately gave birth to quadratic reciprocity and the genus theory of quadratic forms. Further, the book shows how the results of Euler and Gauss can be fully understood only in the context of class field theory. Finally, in order to bring class field theory down to earth, the book explores some of the magnificent formulas of complex multiplication. The central theme of the book is the story of which primes  $p$  can be expressed in the form  $x^2 + ny^2$ . An incomplete answer is given using quadratic forms. A better though abstract answer comes from class field theory, and finally, a concrete answer is provided by complex multiplication. Along the way, the reader is introduced to some wonderful number theory. Numerous exercises and examples are included. The book is written to be enjoyed by readers with modest mathematical backgrounds. Chapter 1 uses basic number theory and abstract algebra, while chapters 2 and 3 require Galois theory and complex analysis, respectively.

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[Trends and Innovations in Information Systems and Technologies](#) SAGE Publications

Publisher description: This book is a reference for librarians, mathematicians, and statisticians involved in college and research level mathematics and statistics in the 21st century. Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics. Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics. These resources are grouped by material type. Publication dates range from the 1800's onwards. Hundreds of electronic resources—some online, both dynamic and static, some in fixed media, are listed among the paper resources. A majority of listed electronic resources are free.

*Functional Programming in C#, Second Edition* Apress

Fads are as common in mathematics as in any other human activity, and it is always difficult to separate the enduring from the ephemeral in the achievements of one's own time. An unfortunate effect of the predominance of fads is that if a student doesn't learn about such worthwhile topics as the wave equation, Gauss's hypergeometric function, the gamma function, and the basic problems of the calculus of variations—among others—as an undergraduate, then he/she is unlikely to do so later. The natural place for an informal acquaintance with such ideas is a leisurely introductory course on differential equations. Specially designed for just such a course, Differential Equations with Applications and Historical Notes takes great pleasure in the journey into the world of differential equations and their wide range of applications. The author—a highly respected educator—advocates a careful approach, using explicit explanation to ensure students fully comprehend the subject matter. With an emphasis on modeling and applications, the long-awaited Third Edition of this classic textbook presents a substantial new section on Gauss's bell curve and improves coverage of Fourier analysis, numerical methods, and linear algebra. Relating the development of mathematics to human activity—i.e., identifying why and how mathematics is used—the text includes a wealth of unique examples and exercises, as well as the author's distinctive historical notes, throughout. Provides an ideal text for a one- or two-semester introductory course on differential equations Emphasizes modeling and applications Presents a substantial new section on Gauss's bell curve Improves coverage of Fourier analysis, numerical methods, and linear algebra Relates the development of mathematics to human activity—i.e., identifying why and how mathematics is used Includes a wealth of unique examples and exercises, as well as the author's distinctive historical notes, throughout Uses explicit explanation to ensure students fully comprehend the subject matter Outstanding Academic Title of the Year, Choice magazine, American Library Association.

[A Gentle Introduction to Numerical Simulations with MATLAB/Octave](#) Princeton University Press

Sandifer has been studying Euler for decades and is one of the world's leading experts on his work. This volume is the second collection of Sandifer's "How Euler Did It" columns. Each is a jewel of historical and mathematical exposition. The sum total of years of work and study of the most prolific mathematician of history, this volume will leave you marveling at Euler's clever inventiveness and Sandifer's wonderful ability to explicate and put it all in context.

**The Queen of Mathematics Entertains** Penguin

Learn to Code by Solving Problems is a practical introduction to programming using Python. It uses coding-competition challenges to teach you the mechanics of coding and how to think like a savvy programmer. Computers are capable of solving almost any problem when given the right instructions. That's where programming comes in. This beginner's book will have you writing Python programs right away. You'll solve interesting problems drawn from real coding competitions and build your programming skills as you go. Every chapter presents problems from coding challenge websites, where online judges test your solutions and provide targeted feedback. As you practice using core Python features, functions, and techniques, you'll develop a clear understanding of data structures, algorithms, and other programming basics. Bonus exercises invite you to explore new concepts on your own, and multiple-choice questions encourage you to think about how each piece of code works. You'll learn how to:

- Run Python code, work with strings, and use variables
- Write programs that make decisions
- Make code more efficient with while and for loops
- Use Python sets, lists, and dictionaries to organize, sort, and search data
- Design programs using functions and top-down design
- Create complete-search algorithms and use Big O notation to design more efficient code

By the end of the book, you'll not only be proficient in Python, but you'll also understand how to think through problems and tackle them with code. Programming languages come and go, but this book gives you the lasting foundation you need to start thinking like a programmer.

*Mathematical Genius in the Enlightenment* Wentworth Press

An acclaimed biography of the Enlightenment's greatest mathematician This is the first full-scale biography of Leonhard Euler (1707-1783), one of the greatest mathematicians and theoretical physicists of all time. In this comprehensive and authoritative account, Ronald Calinger connects the story of Euler's eventful life to the astonishing achievements that place him in the company of Archimedes, Newton, and Gauss. Drawing on Euler's massive published works and correspondence, this biography sets Euler's work in its multilayered context—personal, intellectual, institutional, political, cultural, religious, and social. It is a story of nearly incessant accomplishment, from Euler's fundamental contributions to almost every area of pure and applied mathematics in his time—especially calculus, mechanics, and optics—to his advances in shipbuilding, telescopes, acoustics, ballistics, cartography, chronology, and music theory.

*Algorithmic Thinking* Princeton University Press

In the era of self-taught developers and programmers, essential topics in the industry are frequently learned without a formal academic foundation. A solid grasp of data structures and algorithms (DSA) is imperative for anyone looking to do professional software development and engineering, but classes in the subject can be dry or spend too much time on theory and unnecessary readings. Regardless of your programming language background, *Codeless Data Structures and Algorithms* has you covered. In this book, author Armstrong Subero will help you learn DSAs without writing a single line of code. Straightforward explanations and diagrams give you a confident handle on the topic while ensuring you never have to open your code editor, use a compiler, or look at an integrated development environment. Subero introduces you to linear, tree, and hash data structures and gives you important insights behind the most common algorithms that you can directly apply to your own programs. *Codeless Data Structures and Algorithms* provides you with the knowledge about DSAs that you will need in the professional programming world, without using any complex mathematics or irrelevant information. Whether you are a new developer seeking a basic understanding of the subject or a decision-maker wanting a grasp of algorithms to apply to your projects, this book belongs on your shelf. Quite often, a new, refreshing, and unpretentious approach to a topic is all you need to get inspired. What You'll Learn Understand tree data structures without delving into unnecessary details or going into too much theory Get started learning linear data structures with a basic discussion on computer memory Study an overview of arrays, linked lists, stacks and queues Who This Book Is For This book is for beginners, self-taught developers and programmers, and anyone who wants to understand data structures and algorithms but don't want to wade through unnecessary details about quirks of a programming language or don't have time to sit and read a massive book on the subject. This book is also useful for non-technical decision-makers who are curious about how algorithms work.

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## FINAL THOUGHT

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[Calculus](#) Springer Science & Business Media

Perfect for beginners familiar with programming basics, this hands-on guide provides an easy introduction to Go, the general-purpose programming language from Google. Author Caleb Doxsey covers the language's core features with step-by-step instructions and exercises in each chapter to help you practice what you learn. Go is a general-purpose programming language with a clean syntax and advanced features, including concurrency. This book provides the one-on-one support you need to get started with the language, with short, easily digestible chapters that build on one another. By the time you finish this book, not only will you be able to write real Go programs, you'll be ready to tackle advanced techniques. Jump into Go basics, including data types, variables, and control structures Learn complex types, such as slices, functions, structs, and interfaces Explore Go's core library and learn how to create your own package Write tests for your code by using the language's go test program Learn how to run programs concurrently with goroutines and channels Get suggestions to help you master the craft of programming

*Codeless Data Structures and Algorithms* John Wiley & Sons

Functional Programming in C#, Second Edition teaches you to apply functional thinking to real-world problems using the C# language. Functional Programming in C#, Second Edition is fully revised to cover new functional-inspired features in the most recent releases of C#, including tuples, async streams, pattern matching, and records. Each chapter is packed with awesome perspectives and epiphany moments. Functional Programming in C#, Second Edition teaches you to apply functional thinking to real-world problems using the C# language. You'll discover the principles and language features of functional programming, explore C#'s functional language features, and learn how to use them to write code that is concise, elegant, and robust. Through numerous real-world examples, you'll also learn the power of function composition, data flow programming, immutable data structures, and monadic composition with LINQ. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

**Learning to Program** Packt Publishing Ltd

A hands-on, problem-based introduction to building algorithms and data structures to solve problems with a computer. Algorithmic Thinking will teach you how to solve challenging programming problems and design your own algorithms. Daniel Zingaro, a master teacher, draws his examples from world-class programming competitions like USACO and IOI. You'll learn how to classify problems, choose data structures, and identify appropriate algorithms. You'll also learn how your choice of data structure, whether a hash table, heap, or tree, can affect runtime and speed up your algorithms; and how to adopt powerful strategies like recursion, dynamic programming, and binary search to solve challenging problems. Line-by-line breakdowns of the code will teach you how to use algorithms and data structures like:

- The breadth-first search algorithm to find the optimal way to play a board game or find the best way to translate a book
- Dijkstra's algorithm to determine how many mice can exit a maze or the number of fastest routes between two locations
- The union-find data structure to answer questions about connections in a social network or determine who are friends or enemies
- The heap data structure to determine the amount of money given away in a promotion
- The hash-table data structure to determine whether snowflakes are unique or identify compound words in a dictionary

NOTE: Each problem in this book is available on a programming-judge website. You'll find the site's URL and problem ID in the description. What's better than a free correctness check?

**Pacific Symposium on Biocomputing 2002** Cambridge University Press

If you know how to program, you're ready to tackle Bayesian statistics. With this book, you'll learn how to solve statistical problems with Python code instead of mathematical formulas, using discrete probability distributions rather than continuous mathematics. Once you get the math out of the way, the Bayesian fundamentals will become clearer and you'll begin to apply these techniques to real-world problems. Bayesian statistical methods are becoming more common and more important, but there aren't many resources available to help beginners. Based on undergraduate classes taught by author Allen B. Downey, this book's computational approach helps you get a solid start. Use your programming skills to learn and understand Bayesian statistics Work with problems involving estimation, prediction, decision analysis, evidence, and Bayesian hypothesis testing Get started with simple examples, using coins, dice, and a bowl of cookies Learn computational methods for solving real-world problems

**Leonhard Euler** Libraries Unlimited

In just seven symbols, with profound and beautiful simplicity, Euler's Equation connects five of the most important numbers in mathematics. Robin Wilson explores each number in turn, then brings them together to consider the power of the equation as a whole.

[Introducing Go](#) Simon and Schuster

"This books presents a holistic view of the new digital library scene ... it is an essential guide to good digital practice and techniques" - back cover.

### REVIEW OF ABOUT PROJECT EULER

- Francis Schaeffer defends the simple notion that a Christian must be known by their love in this short and meaningful book. Astounding in its

simplicity but deep in its implications.

- The illustrations and story are wonderful!The book has not been modified for the Kindle, however, and the print is WAYYYYYY to small to read comfortably. We're talking .4 font in places. Yowch.