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The Trachtenberg Speed System of Basic Mathematics-Jakow Trachtenberg 2011-03-01 Ever find yourself struggling to check a bill or tax on a payslip? The Trachtenberg Speed System provides a course in refining basic mathematics skills to tackle large sums before simplifying to increase concentration and ability in day-to-day arithmetic. The Trachtenberg system has been described as the 'shorthand of mathematics' and only requires the ability to count from one to eleven. Using a series of simplified keys, it allows anyone to master numbers and calculations giving greater speed, ease in handling numbers and increasing accuracy. Jakow Trachtenberg believed that everyone is born with phenomenal abilities to calculate. He devised a set of rules that allows every child to make multiplication, division, addition, subtraction and square-root calculations with unerring accuracy and at remarkable speed. A perfect entry into gaining confidence with numbers.

The Trachtenberg Speed System of Basic Mathematics-Jakow Trachtenberg 2011-08 The Trachtenberg Speed System of Basic Mathematics is a revolutionary system for calculating and teaching basic math. Children, who had repeatedly failed in arithmetic until their parents sent them to learn this method, were able to perform amazing calculations within seconds. In one demonstration, a ten year old kid when asked to multiply 5132437201 times 452736502785 simply wrote on the blackboard the answer, 2323641669144374104785 in seventy seconds. He never set up the basic and familiar line by line chart, multiplying and adding each row of numbers. Instead, he just wrote down the answer without any of the intermediate steps. To demonstrate his method, Trachtenberg chose children who were doing poorly in their school work. These were children used to failure, shy and withdrawn; or the other extreme, boastful and unmanageable. The children's response to the new, easy way of doing arithmetic was immediate. They found it delightfully like a game. The feeling of accomplishment soon made them lose their unhappy traits. Equally important were the by-products the pupils garnered while learning the new system. As these youngsters became proficient in handling numbers, they began to spurt ahead in all their studies. Their IQs went up too! To prove the point that anyone can learn to do problems quickly and easily, Trachtenberg successfully taught the system to a ten-year-old-presumably retarded-child. Not only did the child learn to compute, but his IQ rating was raised. Since all problems are worked in the head, he acquired excellent memory habits and his ability to concentrate was increased. The Trachtenberg system, once learned, can take the drudgery out of the arithmetic that is part of your daily stint. Experts believe that the Trachtenberg system could have far-reaching an effect on education and science.

Speed Mathematics-Bill Handley 2011-01-07

Trachtenberg Speed Mathematics Self-taught-Jakow Trachtenberg 1975-01-01

Speed Mathematics Simplified-Edward Stoddard 2013-04-09 Entertaining, easy-to-follow suggestions for developing greater speed and accuracy in doing mathematical calculations. Surefire methods for multiplying without carrying, mastering fractions, working quickly with decimals, handling percentages,

and much more.

The Trachtenberg Speed System of Basic Mathematics- 1960

Secrets of Mental Math-Arthur Benjamin 2008-06-03 These simple math secrets and tricks will forever change how you look at the world of numbers. Secrets of Mental Math will have you thinking like a math genius in no time. Get ready to amaze your friends—and yourself—with incredible calculations you never thought you could master, as renowned “mathemagician” Arthur Benjamin shares his techniques for lightning-quick calculations and amazing number tricks. This book will teach you to do math in your head faster than you ever thought possible, dramatically improve your memory for numbers, and—maybe for the first time—make mathematics fun. Yes, even you can learn to do seemingly complex equations in your head; all you need to learn are a few tricks. You’ll be able to quickly multiply and divide triple digits, compute with fractions, and determine squares, cubes, and roots without blinking an eye. No matter what your age or current math ability, Secrets of Mental Math will allow you to perform fantastic feats of the mind effortlessly. This is the math they never taught you in school.

Instant Math, Based on the Trachtenberg Speed System of Basic Mathematics-Ann Cutler 1962 A system for doing multiplication and addition quickly through the use of mental “tricks.”

Short-Cut Math-Gerard W. Kelly 2014-11-18 Clear, concise compendium of about 150 time-saving math short-cuts features faster, easier ways to add, subtract, multiply, and divide. Each problem includes an explanation of the method. No special math ability needed.

Speed Math for Kids-Bill Handley 2007-03-16 Learn how to easily do quick mental math calculations

Speed Math for Kids is your guide to becoming a math genius—even if you have struggled with math in the past. Believe it or not, you have the ability to perform lightning quick calculations that will astonish your friends, family, and teachers. You’ll be able to master your multiplication tables in minutes, and learn basic number facts while doing it. While the other kids in class are still writing down the problems, you can be calling out the answers. Speed Math for Kids is all about playing with mathematics. This fun-filled book will teach you: \* How to multiply and divide large numbers in your head \* What you can do to make addition and subtraction easy \* Tricks for understanding fractions and decimals \* How to quickly check answers every time you make a calculation \* And much more If you’re looking for a foolproof way to do multiplication, division, factoring estimating, and more, Speed Math for Kids is the book for you. With enough practice you’ll go straight to the top of the class!

Speed Mathematics Using the Vedic System-Vali Nasser 2004 Speed Mathematics using the Vedic system facilitates Mathematics learning. The average pupil will be able to work out calculations such as  $46 \times 44$ ,  $95 \times 95$  and  $116 \times 114$  mentally, often faster than a calculator. Paper and pencil will still be required for most questions, but the speed and accuracy of calculations will improve significantly. This book provides smart strategies for building a foundation in Number work and Algebra. These two areas are the building blocks in mathematics. Once pupils can master these aspects they will feel confident to tackle other branches of mathematics. This book is suitable for children from 10 to 14 years of age, but adults who have found mathematics difficult in the past will also benefit from it.

How to Calculate Quickly-Henry Sticker 1955 A number sense approach to the four basic operations of arithmetic together with fractions and decimals

How to Calculate Quickly-Henry Sticker 2013-04-15 Many useful procedures explained and taught: 2-column addition, left-to-right subtraction, mental division of large numbers, more. Also numerous helpful shortcuts. More than 8,000 problems, with solutions. 1945 edition.

The Trachtenberg Speed System of Basic Mathematics-Jakow Trachtenberg 1962

Miracle Math-Harry Lorayne 1992 Presents mathematical shortcut and “how to develop a calculator in your head.”

The Cosmic Calculator-Kenneth Williams 2002 Mathematic: Textbook, Inc. 3 Books, Book: xxx, 578 p., Teacher's Guide: V, 246 p., Answer Book: vii, 79 p., The course has been well designed and tested at a school in England. It is based on the unique system of mathematic outlined by Sri Bharati Krsna tirathji from his book Vedic Mathematic (pub. in 1965)

Rapid Math Tricks & Tips-Edward H. Julius 1992-11-11 Demonstrates a slew of time-saving tips and tricks for performing common math calculations. Contains sample problems for each trick, leading the reader through step-by-step. Features two mid-terms and a final exam to test your progress plus hundreds of exercise problems ranging from simple to more sophisticated. Also includes sections on “Mathematical Curiosities” and “Parlor Tricks” for math lovers.

The Magic of Math-Arthur Benjamin 2015-09-08 The world's greatest mental mathematical magician takes us on a spellbinding journey through the wonders of numbers (and more) “Arthur Benjamin . . . joyfully

shows you how to make nature's numbers dance." -- Bill Nye (the science guy) The Magic of Math is the math book you wish you had in school. Using a delightful assortment of examples-from ice-cream scoops and poker hands to measuring mountains and making magic squares-this book revels in key mathematical fields including arithmetic, algebra, geometry, and calculus, plus Fibonacci numbers, infinity, and, of course, mathematical magic tricks. Known throughout the world as the "mathemagician," Arthur Benjamin mixes mathematics and magic to make the subject fun, attractive, and easy to understand for math fan and math-phobic alike. "A positively joyful exploration of mathematics." -- Publishers Weekly, starred review "Each [trick] is more dazzling than the last." -- Physics World

The Trachtenberg Speed System of Basic Mathematics-Jakow Trachtenberg 1960

The Trachtenberg Speed System of Basic Mathematics-Jakob Trachtenberg 2011-01-03 Jakow

Trachtenberg believed that everyone is born with phenomenal abilities to calculate, he devised a set of rules that allows every child to make multiplication, division, addition, subtraction and square-root calculations with unerring accuracy and at remarkable speed.

Introductory Discrete Mathematics-V. K. Balakrishnan 2012-04-30 This concise, undergraduate-level text focuses on combinatorics, graph theory with applications to some standard network optimization problems, and algorithms. More than 200 exercises, many with complete solutions. 1991 edition.

Till Time's Last Sand-David Kynaston 2017-09-07 The authorised history of the Bank of England by the bestselling David Kynaston, 'the most entertaining historian alive' (Spectator). 'Not an ordinary bank, but a great engine of state,' Adam Smith declared of the Bank of England as long ago as 1776. The Bank is now over 320 years old, and throughout almost all that time it has been central to British history. Yet to most people, despite its increasingly high profile, its history is largely unknown. Till Time's Last Sand by David Kynaston is the first authoritative and accessible single-volume history of the Bank of England, opening with the Bank's founding in 1694 in the midst of the English financial revolution and closing in 2013 with Mark Carney succeeding Mervyn King as Governor. This is a history that fully addresses the important debates over the years about the Bank's purpose and modes of operation and that covers such aspects as monetary and exchange-rate policies and relations with government, the City and other central banks. Yet this is also a narrative that does full justice to the leading episodes and characters of the Bank, while taking care to evoke a real sense of the place itself, with its often distinctively domestic side. Deploying an array of piquant and revealing material from the Bank's rich archives, Till Time's Last Sand is a multi-layered and insightful portrait of one of our most important national institutions, from one of our leading historians.

Vedic Mathematics Made Easy-Dhaval Bathia 2005-01-01 A Simplified Approach For Beginners& Can you multiply 231072 by 110649 and get the answer in just a single line? Can you find the cube root of 262144 or 704969 in two seconds? Can you predict the birth-date of a person without him telling you? Can you predict how much money a person has without him telling you? Can you check the final answer without solving the question? Or, in a special case, get the final answer without looking at the question? Can you solve squares, square roots, cube-roots and other problems mentally?All this and a lot more is possible with the techniques of Vedic Mathematics described in this book. The techniques are useful for students, professionals and businessmen. The techniques of Vedic Mathematics have helped millions of students all over the world get rid of their fear of numbers and improve their scores in quantitative subjects. Primary and secondary school students have found the Vedic mathematics approach very exciting. Those giving competitive exams like MBA, MCA, CET, UPSC, GRE, GMAT etc. have asserted that Vedic Mathematics has helped them crack the entrance tests of these exams.

Fundamentals of Basic Mathematical Tools-G. N. Tiwari , Neha Dimri 2016-08-08 Just like how you can't build a great building on a weak foundation, in order to nurture the great minds of the future, a better grasp on fundamentals is needed. Fundamentals of Basic Mathematical Tools (Class I-VIII) provides students with all the resources required to build a better grasp on mathematics. This booklet includes a detailed explanation of the basic concepts of mathematics such as multiplication/addition of signs, solving signed ratios, moving variables across the equal to sign in equations, discussion on roman numerals, conversion between units, solving for trigonometric ratios and many other areas which children find troublesome. Mathematics is perceived to be tough by kids but all they need is a better understanding of the basic concepts involved in the subject. The main objective of this book is to encourage students to pursue mathematics in higher education by helping them understand their fundamentals properly.

Vedic Mathematics, Or Sixteen Simple Mathematical Formulae from the Vedas-Jagadguru Swami Bharati Krishna Tirtha 1987

Mental Math-Ofpad The School of Genius 2019-05-25 You don't have to buy this book. Just read this till the

end You don't have to buy this book. Just read this till end & you will learn something that will change the way you do math forever. Warning: I am revealing this secret only to the first set of readers who will buy this book & plan to put this secret back inside the book once I have enough sales. So read this until the very end while you still can. School taught you the wrong way to do math The way you were taught to do math, uses a lot of working memory. Working memory is the short term memory used to complete a mental task. You struggle because trying to do mental math the way you were taught in school, overloads your working memory. Let me show you what I mean with an example: Try to multiply the  $73201 \times 3$ . To do this you multiply the following:  $1 \times 3 = 0 \times 3 = 2 \times 3 = 3 \times 3 = 7 \times 3 =$  This wasn't hard, & it might have taken you just seconds to multiply the individual numbers. However, to get the final answer, you need to remember every single digit you calculated to put them back together. It takes effort to get the answer because you spend time trying to recall the numbers you already calculated. Math would be easier to do in your head if you didn't have to remember so many numbers. Imagine when you tried to multiply  $73201 \times 3$ , if you could have come up with the answer, in the time it took you to multiply the individual numbers. Wouldn't you have solved the problem faster than the time it would have taken you to punch in the numbers inside a calculator? Do the opposite of what you were taught in school The secret of doing mental math is to calculate from left to right instead of from right to left. This is the opposite of what you were taught in school. This works so well because it frees your working memory almost completely. It is called the LR Method where LR stands for Left to Right. Lets try to do the earlier example where we multiplied  $73201 \times 3$ . This time multiply from left to right, so we get:  $7 \times 3 = 21$   $3 \times 3 = 93$   $2 \times 3 = 60$   $0 \times 3 = 03$   $1 \times 3 = 3$  Notice that you started to call out the answer before you even finished the whole multiplication problem. You don't have to remember a thing to recall & use later. So you end up doing math a lot faster. The Smart Choice You could use what you learnt & apply it to solve math in the future. This might not be easy, because we just scratched the surface. I've already done the work for you. Why try to reinvent the wheel, when there is already a proven & tested system you can immediately apply. This book was first available in video format & has helped 10,000+ students from 132 countries. It is available at [ofpad.com/mathcourse](http://ofpad.com/mathcourse) to enroll. This book was written to reach students who consume the information in text format. You can use the simple techniques in this book to do math faster than a calculator effortlessly in your head, even if you have no aptitude for math to begin with. Imagine waking up tomorrow being able to do lightning fast math in your head. Your family & friends will look at you like you are some kind of a genius. Since calculations are done in your head, you will acquire better mental habits in the process. So you will not just look like a genius. You will actually be one. Limited Time Bonus Weekly training delivered through email is available for free as a bonus at the end of this book for the first set of readers. Once we have enough readers, this bonus will not be available for free. Why Price Is So Low This book is priced at a ridiculous discount only to get our first set of readers. When we have enough readers the price will go up. Click Buy Now Click "Buy Now" to lock your discounted price & free bonus, or you risk coming back at a later date or even a few minutes from now to see the price go up. Click the yellow button that says "Buy Now" and lets get started.

Think Like A Maths Genius-Michael Shermer 2011-09-01 How to calculate almost anything in your head. Did you know that it's easier to add and subtract from left to right, rather than the other way round? You can be taught to square a three-digit number in seconds. Learn how to perform lightning calculations in your head, discover methods of incredible memorisation and other feats of mental agility. Learn maths secrets for the real world, from shopping to calculating a restaurant tip and figuring out gambling odds (or how much you've won). Learn how to solve sudoku faster.

The Treasury Bond Basis-Galen Burghardt 2005-07-15 Now in its third edition, The Treasury Bond Basis is the mandatory reference text for Treasury bond and note futures trading rooms around the world. This updated edition reflects the numerous market changes, chief among them the Chicago Board of Trade's decision to switch from an 8 percent to a 6 percent conversion factor. Revisions include greater detail on hedging and trading, updated explanations of options valuation and short delivery options, and discussion of global bonds futures trading and applications.

The Craft of International History-Marc Trachtenberg 2009-02-09 This is a practical guide to the historical study of international politics. The focus is on the nuts and bolts of historical research--that is, on how to use original sources, analyze and interpret historical works, and actually write a work of history. Two appendixes provide sources sure to be indispensable for anyone doing research in this area. The book does not simply lay down precepts. It presents examples drawn from the author's more than forty years' experience as a working historian. One important chapter, dealing with America's road to war in 1941, shows in unprecedented detail how an interpretation of a major historical issue can be developed. The aim

throughout is to throw open the doors of the workshop so that young scholars, both historians and political scientists, can see the sort of thought processes the historian goes through before he or she puts anything on paper. Filled with valuable examples, this is a book anyone serious about conducting historical research will want to have on the bookshelf.

How to Become a Human Calculator-Aditi Singhal 2011 Useful for School students, teachers, and professionals and a must for those appearing for competitive exams like UPSC, MBA, MCA, GMAT, GRE, CSAT, etc. □After reading this book, solving  $5378942639 \div 8120594263$ , finding the square of 99975, the cube root of 704969 or calculating any day from 500 years would be child's play

The Boy Who Escaped Paradise: A Novel-J. M. Lee 2016-12-20 An astonishing story of the mysteries, truths, and deceptions that follow the odyssey of Ahn Gilmo, a young math savant, as he escapes from the most isolated country in the world and searches for the only family he has left An unidentified body is discovered in New York City, with numbers and symbols are written in blood near the corpse. Gilmo, a North Korean national who interprets the world through numbers, formulas, and mathematical theories, is arrested on the spot. Angela, a CIA operative, is assigned to gain his trust and access his unique thought-process. The enigmatic Gilmo used to have a quiet life back in Pyongyang. But when his father, a preeminent doctor is discovered to be a secret Christian, he is subsequently incarcerated along with Gilmo, in a political prison overseen by a harsh, cruel warden. There, Gilmo meets the spirited Yeong-ae, who becomes his only friend. When Yeong-ae manages to escape, Gilmo flees to track her down. He uses his peculiar gifts to navigate betrayal and the criminal underworld of east Asia—a world wholly alien to everything he's ever known. In The Boy Who Escaped Paradise, celebrated author J. M. Lee delves into a hidden world filled with vivid characters trapped by ideology, greed, and despair. Gilmo's saga forces the reader to question the line between good and evil, truth and falsehood, captivity and freedom.

The Validation of Scientific Theories-Philipp G. Frank 2018-11-11 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Fast Math: Learn the Secrets of Mental Math-Tim Ander 2017-11-01 Think Fast with Vedic Math Secrets and Mental Calculation Tricks! When you read Fast Math, you'll discover Vedic Math Techniques for mastering basic functions: Addition Subtraction Multiplication Division and so much more! With this fascinating guide, you can quickly and easily determine the square roots of perfect square numbers - and perform many other feats of mental gymnastics. These Vedic secrets mean you don't have to memorize mathematical facts anymore. By grasping the inner workings of math structures, you can make sense of all kinds of numbers - without a calculator or a computer! The written addition most of us learn in school relies on simple and slow systems like "carry the 1" to get answers. There is an alternative - Vedic math moves at the speed of thought. Instead of summing columns and moving from right to left, Vedic math starts on the left. Add the largest numbers in your head, remember this figure, sum the smaller numbers - and then just total the figures in your head! By holding numbers in your head while calculating others, you strengthen your working/short-term memory. This mental sharpness pays off in all parts of your life - from remembering names to articulating your thoughts more clearly.

Maths Hacks-Richard Cochrane 2018-04-05 Everything you need to know about 100 key mathematical concepts condensed into easy-to-understand sound bites designed to stick in your memory and give you an instant grasp of the concept. On each topic, you'll start with a helicopter overview of the subject, which will give you an introduction to the idea and some context surrounding it. Next, you'll zoom in on the core elements of the theory, with clear explanation of each point to make sure you really understand the concept, along with simple examples that everyone can follow. Finally, you'll be given a one-liner hack to really make the theory stick in your mind. The perfect introduction to algebra, logic, probability and much more, this is a great new way to learn about the most important mathematical ideas and concepts in a way that makes them easy to recall even months after reading the book. Topics covered include: Numbers Algebra Logic Geometry Probability Computer science Applied mathematics Mechanics Statistics Set Theory

Mathemagics-Arthur Benjamin 1998 Demonstrates how to solve math problems more quickly in one's head

than with a calculator, and describes mathematical tricks and shortcuts

Stigum's Money Market, 4E-Marcia Stigum 2007-02-13 The Most Widely Read Work on the Subject \_ Completely Updated to Cover the Latest Developments and Advances In Today's Money Market! First published in 1978, Stigum's Money Market was hailed as a landmark work by leaders of the financial, business, and investment communities. This classic reference has now been revised, updated, and expanded to help a new generation of Wall Street money managers and institutional investors. The Fourth Edition of Stigum's Money Market delivers an all-encompassing, cohesive view of the vast and complex money market...offers careful analyses of the growth and changes the market has undergone in recent years...and presents detailed answers to the full range of money market questions. Stigum's Money Market equips readers with: A complete overview of the large and ever-expanding money market arena Quick-access to every key aspect of the fixed-income market A thorough updating of information on the banking system Incisive accounts of money market fundamentals and all the key players In-depth coverage of the markets themselves, including federal funds, government securities, financial futures, Treasury bond and note futures, options, euros, interest rate swaps, CDs, commercial paper, and more Expert discussions of the Federal Reserve, the Internet and electronic trading, and the new roles of commercial banks and federal agencies This updated classic also includes hundreds of helpful new illustrations and calculations, together with an improved format that gives readers quick access to every major topic relating to the fixed-income market.

Disney Princess Annual 2021-Egmont Publishing UK 2020-08-06 Enjoy the magic of Disney with the Disney Princess Annual 2021! The Disney Princess Annual 2021 is packed full of fun stories and activities that all princess fans will enjoy. Including nine of your favourite Disney Princesses: Cinderella, Ariel, Mulan, Moana, Aurora, Belle, Jasmine, Snow White and Rapunzel, it features inspiring stories, entertaining activities, beautiful colouring pictures, fact-filled princess profiles, magical mazes, gorgeous princess posters and cool creative things to make! It's a perfect present for princess fans aged 3 and over. The Disney Princess Annual 2021 makes the perfect Christmas stocking filler!

The Universe Speaks in Numbers-Graham Farmelo 2019-05-28 How math helps us solve the universe's deepest mysteries One of the great insights of science is that the universe has an underlying order. The supreme goal of physicists is to understand this order through laws that describe the behavior of the most basic particles and the forces between them. For centuries, we have searched for these laws by studying the results of experiments. Since the 1970s, however, experiments at the world's most powerful atom-smashers have offered few new clues. So some of the world's leading physicists have looked to a different source of insight: modern mathematics. These physicists are sometimes accused of doing 'fairy-tale physics', unrelated to the real world. But in The Universe Speaks in Numbers, award-winning science writer and biographer Farmelo argues that the physics they are doing is based squarely on the well-established principles of quantum theory and relativity, and part of a tradition dating back to Isaac Newton. With unprecedented access to some of the world's greatest scientific minds, Farmelo offers a vivid, behind-the-scenes account of the blossoming relationship between mathematics and physics and the research that could revolutionize our understanding of reality. A masterful account of the some of the most groundbreaking ideas in physics in the past four decades. The Universe Speaks in Numbers is essential reading for anyone interested in the quest to discover the fundamental laws of nature.

Freedom After the Sharks-Geoff Hudson-Searle 2014-09-28 Each of us is, to some extent or other, a reflection of the experiences of our lives. However, whether and how we succeed is determined at least in part by how we cope with those experiences and what we learn from them. This is the story of a man who, despite a difficult family life and professional setbacks, developed the determination, drive and skills to create a successful business and happy life. Geoff's skills and self-motivation gave him the drive, determination and tenacity to continue a journey through hardship to reach self-fulfillment and, ultimately, success. His book describes the life journey of a young man's heart and his desire to turn his dreams and vision into a business success. Freedom After The Sharks shows how, even in a declining economy, a business can survive and even succeed. It covers some real-life experiences and offers some suggestions for dealing with problems and issues. It provides a guide to finding your way in the business world. The book is suitable for entrepreneurs who might not be sure of the path to take or who want to benefit from other people's mistakes and failures. Other audiences include middle management or junior executives who are looking for a fascinating life story of courage, drive and inspiration, as well as graduates and college students, who will find information that will help prepare them for their careers. The Alignment Problem: Machine Learning and Human Values-Brian Christian 2020-10-06 A jaw-dropping exploration of everything that goes wrong when we build AI systems and the movement to fix them.

Today's "machine-learning" systems, trained by data, are so effective that we've invited them to see and hear for us—and to make decisions on our behalf. But alarm bells are ringing. Recent years have seen an eruption of concern as the field of machine learning advances. When the systems we attempt to teach will not, in the end, do what we want or what we expect, ethical and potentially existential risks emerge. Researchers call this the alignment problem. Systems cull résumés until, years later, we discover that they have inherent gender biases. Algorithms decide bail and parole—and appear to assess Black and White defendants differently. We can no longer assume that our mortgage application, or even our medical tests, will be seen by human eyes. And as autonomous vehicles share our streets, we are increasingly putting our lives in their hands. The mathematical and computational models driving these changes range in complexity from something that can fit on a spreadsheet to a complex system that might credibly be called "artificial intelligence." They are steadily replacing both human judgment and explicitly programmed software. In best-selling author Brian Christian's riveting account, we meet the alignment problem's "first-responders," and learn their ambitious plan to solve it before our hands are completely off the wheel. In a masterful blend of history and on-the-ground reporting, Christian traces the explosive growth in the field of machine learning and surveys its current, sprawling frontier. Readers encounter a discipline finding its legs amid exhilarating and sometimes terrifying progress. Whether they—and we—succeed or fail in solving the alignment problem will be a defining human story. *The Alignment Problem* offers an unflinching reckoning with humanity's biases and blind spots, our own unstated assumptions and often contradictory goals. A dazzlingly interdisciplinary work, it takes a hard look not only at our technology but at our culture—and finds a story by turns harrowing and hopeful.

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