

Imo 2013 Shortlist Problem

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50th IMO - 50 Years of International Mathematical Olympiads - Hans-Dietrich Gronau 2011-01-03

In July 2009 Germany hosted the 50th International Mathematical Olympiad (IMO). For the very first time the number of participating countries exceeded 100, with 104 countries from all continents. Celebrating the 50th anniversary of the IMO provides an ideal opportunity to look back over the past five decades and to review its development to become a worldwide event. This book is a report about the 50th IMO as well as the IMO history. A lot of data about all the 50 IMOs are included. We list the most successful contestants, the results of the 50 Olympiads and the 112 countries that have ever taken part. It is impressive to see that many of the world's leading research mathematicians were among the most successful IMO participants in their youth. Six of them gave presentations at a special celebration: Bollobás, Gowers, Lovász, Smirnov, Tao and Yoccoz. This book is aimed at students in the IMO age group and all those who have interest in this worldwide leading competition for highschool students.

Number Theory - Titu Andreescu 2017-07-15

Challenge your problem-solving aptitude in number theory with powerful problems that have concrete examples which reflect the potential and impact of theoretical results. Each chapter focuses on a fundamental concept or result, reinforced by each of the subsections, with scores of challenging problems that allow you to comprehend number theory like never before. All students and coaches wishing to excel in math competitions will benefit from this book as will mathematicians and adults who enjoy interesting mathematics.

Family Matters - Rohinton Mistry 2011-02-18

Set in Bombay in the mid-1990s, Family Matters tells a story of familial love and obligation, of personal and political corruption, of the demands of tradition and the possibilities for compassion. Nariman Vakeel, the patriarch of a small discordant family, is beset by Parkinson's and haunted by memories of his past. He lives with his two middle-aged stepchildren, Coomy, bitter and domineering, and her brother, Jal, mild-mannered and acquiescent. But the burden of the illness worsens the already strained family relationships. Soon, their sweet-tempered half-sister, Roxana, is forced to assume sole responsibility for her bedridden father. And Roxana's husband, besieged by financial worries, devises a scheme of deception involving his eccentric employer at a sporting goods store, setting in motion a series of events that leads to the narrative's moving outcome. Family Matters has all the richness, the gentle humour, and the narrative sweep that have earned Mistry the highest of accolades around the world.

Almost Like Christmas - Joseph Heller 2016-12-06

A masterful short story from the acclaimed author of Catch-22, about one long night of anticipation. In a small town in the American South, it is night in the

middle of the twentieth century. Carter, a high-school teacher and football coach in the newly desegregated schools, is awaiting news of two of his students who have been in a serious altercation. Outside the building where Carter has kept his vigil, a crowd of townspeople have also gathered to keep watch. Carter must choose how much he wants to participate in the spectacle, and how much he can afford to keep his distance. "Almost Like Christmas" by Joseph Heller is one of 20 short stories within Mulholland Books's Strand Originals series, featuring thrilling stories by the biggest names in mystery from the Strand Magazine archives. View the full series list at mulhollandbooks.com and listen to them all!

102 Combinatorial Problems - Titu Andreescu 2013-11-27

"102 Combinatorial Problems" consists of carefully selected problems that have been used in the training and testing of the USA International Mathematical Olympiad (IMO) team. Key features: * Provides in-depth enrichment in the important areas of combinatorics by reorganizing and enhancing problem-solving tactics and strategies * Topics include: combinatorial arguments and identities, generating functions, graph theory, recursive relations, sums and products, probability, number theory, polynomials, theory of equations, complex numbers in geometry, algorithmic proofs, combinatorial and advanced geometry, functional equations and classical inequalities The book is systematically organized, gradually building combinatorial skills and techniques and broadening the student's view of mathematics. Aside from its practical use in training teachers and students engaged in mathematical competitions, it is a source of enrichment that is bound to stimulate interest in a variety of mathematical areas that are tangential to combinatorics.

Functional Equations in Mathematical Olympiads (2017 - 2018) - Amir Hossein Parvardi 2018-05-29

Functional equations, which are a branch of algebraic problems used in mathematical competitions, appear in recent olympiads very frequently. The current book is the first volume in a series of books on collections of solved problems in functional equations. This volume contains 175 problems on the subject, including those used in latest mathematical olympiads (2017 - 2018) around the world. The basic concepts of functional equations and techniques of problem solving have been briefly discussed in the preamble of the book.

Topics in Algebra and Analysis - Radmila Bulajich Manfrino 2015-02-09

The techniques presented here are useful for solving mathematical contest problems in algebra and analysis. Most of the examples and exercises that appear in the book originate from mathematical Olympiad competitions around the world. In the first four chapters the authors cover material for competitions at high school level. The level advances with the chapters. The topics explored include polynomials, functional equations, sequences and an elementary treatment of

complex numbers. The final chapters provide a comprehensive list of problems posed at national and international contests in recent years, and solutions to all exercises and problems presented in the book. It helps students in preparing for national and international mathematical contests from high school level to more advanced competitions and will also be useful for their first year of mathematical studies at the university. It will be of interest to teachers in college and university level, and trainers of the mathematical Olympiads.

Topics in Number Theory - Amir Hossein Parvardi 2018-09-11

This challenging book contains fundamentals of elementary number theory as well as a huge number of solved problems and exercises. The authors, who are experienced mathematical olympiad teachers, have used numerous solved problems and examples in the process of presenting the theory. Another point which has made this book self-contained is that the authors have explained everything from the very beginning, so that the reader does not need to use other sources for definitions, theorems, or problems. On the other hand, *Topics in Number Theory* introduces and develops advanced subjects in number theory which may not be found in other similar number theory books; for instance, chapter 5 presents Thue's lemma, Vietta jumping, and lifting the exponent lemma (among other things) which are unique in the sense that no other book covers all such topics in one place. As a result, this book is suitable for both beginners and advanced-level students in olympiad number theory, math teachers, and in general whoever is interested in learning number theory. For more information about the book, please refer to <https://TopicsInNumberTheory.com>.

I Can't Stop Hiccuping! - Lauren Child 2010-01-07

The day of the school concert, Lola and Lotta are practicing the song they're going to perform when Lola gets a bad case of the hiccups. Everyone tries to help her get rid of them, but nothing works. Will Lola be able to stop hiccuping in time for the show?

Complex Numbers from A to ... Z - Titu Andreescu 2014-02-17

* Learn how complex numbers may be used to solve algebraic equations, as well as their geometric interpretation * Theoretical aspects are augmented with rich exercises and problems at various levels of difficulty * A special feature is a selection of outstanding Olympiad problems solved by employing the methods presented * May serve as an engaging supplemental text for an introductory undergrad course on complex numbers or number theory

Square Matrices of Order 2 - Vasile Pop 2017-04-04

This unique and innovative book presents an exciting and complete detail of all the important topics related to the theory of square matrices of order 2. The readers exploring every detailed aspect of matrix theory are gently led toward understanding advanced topics. They will follow every notion of matrix theory with ease, accumulating a thorough understanding of algebraic and geometric aspects of matrices of order 2. The prime jewel of this book is its offering of an unusual collection of problems, theoretically motivated, most of which are new, original, and seeing the light of publication for the first time in the literature. Nearly all of the exercises are presented with detailed solutions and vary in difficulty from easy to more advanced. Many problems are particularly challenging. These, and not only these, invite the reader to unleash their creativity and research capabilities and to discover their own methods of attacking a problem. Matrices have a vast practical importance to mathematics, science, and engineering; therefore the readership of this book is intended to be broad: high school students wishing to learn the fundamentals of matrix theory, first year students who like to participate in mathematical competitions, graduate students who want

to learn more about an application of a certain technique, doctoral students who are preparing for their prelim exams in linear algebra, and linear algebra instructors. Chapters 1–3 complement a standard linear algebra course. Pure and applied mathematicians who use matrix theory for their applications will find this book useful as a refresher. In fact, anyone who is willing to explore the methodologies discussed in this book and work through a collection of problems involving matrices of order 2 will be enriched.

Nigeria's Criminal Crude - Christina Katsouris 2015-07-30

Nigerian crude oil is being stolen on an industrial scale. Some proceeds are laundered through world financial centers, polluting markets and financial institutions overseas. This report explores what the international community could do about it.

110 Geometry Problems for the International Mathematical Olympiad - Titu Andreescu 2014

This book represents a collection of carefully selected geometry problems designed for passionate geometers and students preparing for the IMO. Assuming the theory and the techniques presented in the first two geometry books published by XYZ Press, 106 Geometry Problems from the AwesomeMath Summer Program and 107 Problems from the AwesomeMath Year-Round Program, this book presents a multitude of beautiful synthetic solutions that are meant to give a sense of how one should think about difficult geometry problems. On average, each problem comes with at least two such solutions and with additional remarks about the underlying configuration.

But I Am an Alligator - Lauren Child 2008-01-10

Lola has a favorite alligator costume that she wants to wear absolutely everywhere. Charlie tells her she can't wear it ALL the time, but Lola argues that she can. Much to Charlie's embarrassment, Lola wears her alligator costume to the supermarket and the park. She even plans to wear it for her school talk called "All about Me!" Can Charlie stop Lola from making a fool of herself in front of the whole school?

Putnam and Beyond - Răzvan Gelca 2017-09-19

This book takes the reader on a journey through the world of college mathematics, focusing on some of the most important concepts and results in the theories of polynomials, linear algebra, real analysis, differential equations, coordinate geometry, trigonometry, elementary number theory, combinatorics, and probability. Preliminary material provides an overview of common methods of proof: argument by contradiction, mathematical induction, pigeonhole principle, ordered sets, and invariants. Each chapter systematically presents a single subject within which problems are clustered in each section according to the specific topic. The exposition is driven by nearly 1300 problems and examples chosen from numerous sources from around the world; many original contributions come from the authors. The source, author, and historical background are cited whenever possible. Complete solutions to all problems are given at the end of the book. This second edition includes new sections on quadratic polynomials, curves in the plane, quadratic fields, combinatorics of numbers, and graph theory, and added problems or theoretical expansion of sections on polynomials, matrices, abstract algebra, limits of sequences and functions, derivatives and their applications, Stokes' theorem, analytical geometry, combinatorial geometry, and counting strategies. Using the W.L. Putnam Mathematical Competition for undergraduates as an inspiring symbol to build an appropriate math background for graduate studies in pure or applied mathematics, the reader is eased into transitioning from problem-solving

at the high school level to the university and beyond, that is, to mathematical research. This work may be used as a study guide for the Putnam exam, as a text for many different problem-solving courses, and as a source of problems for standard courses in undergraduate mathematics. Putnam and Beyond is organized for independent study by undergraduate and graduate students, as well as teachers and researchers in the physical sciences who wish to expand their mathematical horizons.

A Romanian Problem Book - Titu Andreescu 2020-03-30

Problem-Solving and Selected Topics in Euclidean Geometry - Sotirios E. Louridas 2014-07-08

"Problem-Solving and Selected Topics in Euclidean Geometry: in the Spirit of the Mathematical Olympiads" contains theorems which are of particular value for the solution of geometrical problems. Emphasis is given in the discussion of a variety of methods, which play a significant role for the solution of problems in Euclidean Geometry. Before the complete solution of every problem, a key idea is presented so that the reader will be able to provide the solution. Applications of the basic geometrical methods which include analysis, synthesis, construction and proof are given. Selected problems which have been given in mathematical olympiads or proposed in short lists in IMO's are discussed. In addition, a number of problems proposed by leading mathematicians in the subject are included here. The book also contains new problems with their solutions. The scope of the publication of the present book is to teach mathematical thinking through Geometry and to provide inspiration for both students and teachers to formulate "positive" conjectures and provide solutions.

Lemmas in Olympiad Geometry - Titu Andreescu 2016

This book showcases the synthetic problem-solving methods which frequently appear in modern day Olympiad geometry, in the way we believe they should be taught to someone with little familiarity in the subject. In some sense, the text also represents an unofficial sequel to the recent problem collection published by XYZ Press, 110 Geometry Problems for the International Mathematical Olympiad, written by the first and third authors, but the two books can be studied completely independently of each other. The work is designed as a medley of the important Lemmas in classical geometry in a relatively linear fashion: gradually starting from Power of a Point and common results to more sophisticated topics, where knowing a lot of techniques can prove to be tremendously useful. We treat each chapter as a short story of its own and include numerous solved exercises with detailed explanations and related insights that will hopefully make your journey very enjoyable.

Shadow of the Hawk - Curtis Jobling 2012-10-16

The epic saga continues in the third installment of this thrilling series! Drew Ferran, Lyssia's last remaining Wolf and the rightful heir to the kingdom's throne, is held prisoner by an evil Lizardlord. But rebellion's always a possibility when Drew's around, and with the help of his cohorts, he overthrows the slavers and embarks on a quest to find the long-lost tribe of Hawklords so they can join his war against the evil Catlords. This third book in the Wereworld series features even more heart-pounding action, wild characters, and epic struggle between good and evil. "Game of Thrones for the tween set." –School Library Journal

The Real Boy - Anne Ursu 2013-09-24

National Book Award Longlist * Bank Street Children's Book Committee Best Book of

the Year "Beautifully written and elegantly structured, this fantasy is as real as it gets."—Franny Billingsley, author of *Chime The Real Boy*, Anne Ursu's follow-up to her widely acclaimed and beloved middle grade fantasy *Breadcrumbs*, is a spellbinding tale of the power we all wield, great and small. On an island on the edge of an immense sea there is a city, a forest, and a boy named Oscar. Oscar is a shop boy for the most powerful magician in the village, and spends his days in a small room in the dark cellar of his master's shop grinding herbs and dreaming of the wizards who once lived on the island generations ago. Oscar's world is small, but he likes it that way. The real world is vast, strange, and unpredictable. And Oscar does not quite fit in it. But now that world is changing. Children in the city are falling ill, and something sinister lurks in the forest. Oscar has long been content to stay in his small room in the cellar, comforted in the knowledge that the magic that flows from the forest will keep his island safe. Now even magic may not be enough to save it.

Europa - Tim Parks 1998

From the acclaimed author of *Tongues of Flame*, *Europa* is a darkly comic novel about obsessive love gone sour. Jealousy and revenge, passion and dread intertwine in one man's soul as he is stuck on a coach journey with the woman who broke his heart.

106 Geometry Problems from the AwesomeMath Summer Program - Titu Andreescu 2013

This book contains 106 geometry problems used in the AwesomeMath Summer Program to train and test top middle and high-school students from the U.S. and around the world. Just as the camp offers both introductory and advanced courses, this book also builds up the material gradually. The authors begin with a theoretical chapter where they familiarize the reader with basic facts and problem-solving techniques. Then they proceed to the main part of the work, the problem sections. The problems are a carefully selected and balanced mix which offers a vast variety of flavors and difficulties, ranging from AMC and AIME levels to high-end IMO problems. Out of thousands of Olympiad problems from around the globe, the authors chose those which best illustrate the featured techniques and their applications. The problems meet the authors' demanding taste and fully exhibit the enchanting beauty of classical geometry. For every problem, they provide a detailed solution and strive to pass on the intuition and motivation behind it. Many problems have multiple solutions. Directly experiencing Olympiad geometry both as contestants and instructors, the authors are convinced that a neat diagram is essential to efficiently solve a geometry problem. Their diagrams do not contain anything superfluous, yet emphasize the key elements and benefit from a good choice of orientation. Many of the proofs should be legible only from looking at the diagrams.

The World Goes On - László Krasznahorkai 2017-11-28

A magnificent new collection of stories by "the contemporary Hungarian master of apocalypse" (Susan Sontag) In *The World Goes On*, a narrator first speaks directly, then tells eleven unforgettable stories, and then bids farewell ("for here I would leave this earth and these stars, because I would take nothing with me"). As László Krasznahorkai himself explains: "Each text is about drawing our attention away from this world, speeding our body toward annihilation, and immersing ourselves in a current of thought or a narrative..." A Hungarian interpreter obsessed with waterfalls, at the edge of the abyss in his own mind, wanders the chaotic streets of Shanghai. A traveler, reeling from the sights and sounds of Varanasi, encounters a giant of a man on the banks of the Ganges ranting on the nature of a single drop of water. A child laborer in a Portuguese marble quarry

wanders off from work one day into a surreal realm utterly alien from his daily toils. The World Goes On is another amazing masterpiece by the winner of the 2015 Man Booker International Prize. "The excitement of his writing," Adam Thirwell proclaimed in the New York Review of Books, "is that he has come up with this own original forms—there is nothing else like it in contemporary literature."

Cloud Atlas - David Mitchell 2010-07-16

By the New York Times bestselling author of The Bone Clocks | Shortlisted for the Man Booker Prize A postmodern visionary and one of the leading voices in twenty-first-century fiction, David Mitchell combines flat-out adventure, a Nabokovian love of puzzles, a keen eye for character, and a taste for mind-bending, philosophical and scientific speculation in the tradition of Umberto Eco, Haruki Murakami, and Philip K. Dick. The result is brilliantly original fiction as profound as it is playful. In this groundbreaking novel, an influential favorite among a new generation of writers, Mitchell explores with daring artistry fundamental questions of reality and identity. Cloud Atlas begins in 1850 with Adam Ewing, an American notary voyaging from the Chatham Isles to his home in California. Along the way, Ewing is befriended by a physician, Dr. Goose, who begins to treat him for a rare species of brain parasite. . . . Abruptly, the action jumps to Belgium in 1931, where Robert Frobisher, a disinherited bisexual composer, contrives his way into the household of an infirm maestro who has a beguiling wife and a nubile daughter. . . . From there we jump to the West Coast in the 1970s and a troubled reporter named Luisa Rey, who stumbles upon a web of corporate greed and murder that threatens to claim her life. . . . And onward, with dazzling virtuosity, to an inglorious present-day England; to a Korean superstate of the near future where neocapitalism has run amok; and, finally, to a postapocalyptic Iron Age Hawaii in the last days of history. But the story doesn't end even there. The narrative then boomerangs back through centuries and space, returning by the same route, in reverse, to its starting point. Along the way, Mitchell reveals how his disparate characters connect, how their fates intertwine, and how their souls drift across time like clouds across the sky. As wild as a videogame, as mysterious as a Zen koan, Cloud Atlas is an unforgettable tour de force that, like its incomparable author, has transcended its cult classic status to become a worldwide phenomenon. Praise for Cloud Atlas "[David] Mitchell is, clearly, a genius. He writes as though at the helm of some perpetual dream machine, can evidently do anything, and his ambition is written in magma across this novel's every page."—The New York Times Book Review "One of those how-the-holy-hell-did-he-do-it? modern classics that no doubt is—and should be—read by any student of contemporary literature."—Dave Eggers "Wildly entertaining . . . a head rush, both action-packed and chillingly ruminative."—People "The novel as series of nested dolls or Chinese boxes, a puzzle-book, and yet—not just dazzling, amusing, or clever but heartbreaking and passionate, too. I've never read anything quite like it, and I'm grateful to have lived, for a while, in all its many worlds."—Michael Chabon "Cloud Atlas ought to make [Mitchell] famous on both sides of the Atlantic as a writer whose fearlessness is matched by his talent."—The Washington Post Book World "Thrilling . . . One of the biggest joys in Cloud Atlas is watching Mitchell sashay from genre to genre without a hitch in his dance step."—Boston Sunday Globe "Grand and elaborate . . . [Mitchell] creates a world and language at once foreign and strange, yet strikingly familiar and intimate."—Los Angeles Times

Introduction to Counting and Probability - David Patrick 2007-08

Iron Sunrise - Charles Stross 2005-06-28

"[Stross] has the ability to superimpose an intriguing take on contemporary events over an imaginative story peopled by bizarre characters." – The Kansas City Star A G2 star doesn't just explode—not without outside interference. So the survivors of the planet Moscow, which was annihilated in just such an event, have launched a counterattack against the most likely culprit: the neighboring system of New Dresden. But New Dresden wasn't responsible, and as the deadly missiles approach their target, Rachel Mansour, agent for the interests of Old Earth, is assigned to find out who was. Opposing her is an unknown—and unimaginable—enemy. At stake is not only the fate of New Dresden but also the very order of the universe. And the one person who knows the identity of that enemy is a disaffected teenager who calls herself Wednesday Shadowmist. But Wednesday has no idea what she knows...

Recurrent Sequences - Dorin Andrica 2020-09-23

This self-contained text presents state-of-the-art results on recurrent sequences and their applications in algebra, number theory, geometry of the complex plane and discrete mathematics. It is designed to appeal to a wide readership, ranging from scholars and academics, to undergraduate students, or advanced high school and college students training for competitions. The content of the book is very recent, and focuses on areas where significant research is currently taking place. Among the new approaches promoted in this book, the authors highlight the visualization of some recurrences in the complex plane, the concurrent use of algebraic, arithmetic, and trigonometric perspectives on classical number sequences, and links to many applications. It contains techniques which are fundamental in other areas of math and encourages further research on the topic. The introductory chapters only require good understanding of college algebra, complex numbers, analysis and basic combinatorics. For Chapters 3, 4 and 6 the prerequisites include number theory, linear algebra and complex analysis. The first part of the book presents key theoretical elements required for a good understanding of the topic. The exposition moves on to fundamental results and key examples of recurrences and their properties. The geometry of linear recurrences in the complex plane is presented in detail through numerous diagrams, which lead to often unexpected connections to combinatorics, number theory, integer sequences, and random number generation. The second part of the book presents a collection of 123 problems with full solutions, illustrating the wide range of topics where recurrent sequences can be found. This material is ideal for consolidating the theoretical knowledge and for preparing students for Olympiads.

Complex Numbers from A to ...Z - Titu Andreescu 2007-10-08

* Learn how complex numbers may be used to solve algebraic equations, as well as their geometric interpretation * Theoretical aspects are augmented with rich exercises and problems at various levels of difficulty * A special feature is a selection of outstanding Olympiad problems solved by employing the methods presented * May serve as an engaging supplemental text for an introductory undergrad course on complex numbers or number theory

Problem-Solving Strategies - Arthur Engel 2008-01-19

A unique collection of competition problems from over twenty major national and international mathematical competitions for high school students. Written for trainers and participants of contests of all levels up to the highest level, this will appeal to high school teachers conducting a mathematics club who need a range of simple to complex problems and to those instructors wishing to pose a "problem of the week", thus bringing a creative atmosphere into the classrooms. Equally, this is a must-have for individuals interested in solving difficult and

challenging problems. Each chapter starts with typical examples illustrating the central concepts and is followed by a number of carefully selected problems and their solutions. Most of the solutions are complete, but some merely point to the road leading to the final solution. In addition to being a valuable resource of mathematical problems and solution strategies, this is the most complete training book on the market.

The IMO Compendium - Dušan Djukić 2011-05-05

"The IMO Compendium" is the ultimate collection of challenging high-school-level mathematics problems and is an invaluable resource not only for high-school students preparing for mathematics competitions, but for anyone who loves and appreciates mathematics. The International Mathematical Olympiad (IMO), nearing its 50th anniversary, has become the most popular and prestigious competition for high-school students interested in mathematics. Only six students from each participating country are given the honor of participating in this competition every year. The IMO represents not only a great opportunity to tackle interesting and challenging mathematics problems, it also offers a way for high school students to measure up with students from the rest of the world. Until the first edition of this book appearing in 2006, it has been almost impossible to obtain a complete collection of the problems proposed at the IMO in book form. "The IMO Compendium" is the result of a collaboration between four former IMO participants from Yugoslavia, now Serbia and Montenegro, to rescue these problems from old and scattered manuscripts, and produce the ultimate source of IMO practice problems. This book attempts to gather all the problems and solutions appearing on the IMO through 2009. This second edition contains 143 new problems, picking up where the 1959-2004 edition has left off.

The Absent One - Jussi Adler-Olsen 2013-05-07

Detective Carl M² investigates the twenty-year-old murders of a brother and sister whose confessed killer may actually be innocent, a case with ties to a homeless woman and powerful adversaries.

Purple Comet! Math Meet - Titu Andreescu 2013

This book is a comprehensive compilation of all the problems and solutions from the 2003 to 2012 Purple Comet Math Meet contests for middle and high school students. The problems featured not only employ an extensive range of mathematical concepts from algebra, geometry, number theory, and combinatorics but also encourage team collaboration. Any student interested in mathematics--whether looking to prepare for contests or, even more importantly, to sharpen math problem-solving skills--would cherish and enjoy this unique and pertinent collection of meaningful problems and solutions.

Existentialism: A Very Short Introduction - Thomas Flynn 2006-10-12

Existentialism was one of the leading philosophical movements of the twentieth century. Focusing on its seven leading figures, Sartre, Nietzsche, Heidegger, Kierkegaard, de Beauvoir, Merleau-Ponty and Camus, this Very Short Introduction provides a clear account of the key themes of the movement which emphasized individuality, free will, and personal responsibility in the modern world. Drawing in the movement's varied relationships with the arts, humanism, and politics, this book clarifies the philosophy and original meaning of 'existentialism' - which has tended to be obscured by misappropriation. Placing it in its historical context, Thomas Flynn also highlights how existentialism is still relevant to us today.

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combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

The Death of Marco Pantani - Matt Rendell 2012-11-15

The intimate biography of the charismatic Tour de France winner Marco Pantani, now updated to include the 2014 and 2015 investigation into Pantani's death. National Sporting Club Book of the Year Shortlisted for the William Hill Sports Book of the Year Award 'An exhaustively detailed and beautiful book . . . a fitting, ambivalent tribute - to the man, and to the dark heart of the sport he loved' Independent On Valentine's day 2004, Marco Pantani was found dead in a cheap hotel. It defied belief: Pantani, having won the rare double of the Giro d'Italia and the Tour de France in 1998, was regarded as the only cyclist capable of challenging Lance Armstrong's dominance. Only later did it emerge that Pantani had been addicted to cocaine since 1999. Drawing on his personal encounters with Pantani, as well as exclusive access to his psychoanalysts, and interviews with his family and friends, Matt Rendell has produced the definitive account of an iconic sporting figure.

Life After Life - Kate Atkinson 2013-04-02

What if you could live again and again, until you got it right? On a cold and snowy night in 1910, Ursula Todd is born to an English banker and his wife. She dies before she can draw her first breath. On that same cold and snowy night, Ursula Todd is born, lets out a lusty wail, and embarks upon a life that will be, to say the least, unusual. For as she grows, she also dies, repeatedly, in a variety of ways, while the young century marches on towards its second cataclysmic world war. Does Ursula's apparently infinite number of lives give her the power to save the world from its inevitable destiny? And if she can -- will she? Darkly comic, startlingly poignant, and utterly original -- this is Kate Atkinson at her absolute best.

Euclidean Geometry in Mathematical Olympiads - Evan Chen 2021-08-23

This is a challenging problem-solving book in Euclidean geometry, assuming nothing of the reader other than a good deal of courage. Topics covered included cyclic quadrilaterals, power of a point, homothety, triangle centers; along the way the reader will meet such classical gems as the nine-point circle, the Simson line, the symmedian and the mixtilinear incircle, as well as the theorems of Euler, Ceva, Menelaus, and Pascal. Another part is dedicated to the use of complex numbers and barycentric coordinates, granting the reader both a traditional and computational viewpoint of the material. The final part consists of some more advanced topics, such as inversion in the plane, the cross ratio and projective transformations, and the theory of the complete quadrilateral. The exposition is friendly and relaxed, and accompanied by over 300 beautifully drawn figures. The emphasis of this book is placed squarely on the problems. Each chapter contains carefully chosen worked examples, which explain not only the solutions to the problems but also describe in close detail how one would invent the solution to begin with. The text contains a selection of 300 practice problems of varying difficulty from contests around the world, with extensive hints and selected solutions. This book is especially suitable for students preparing for national or international mathematical olympiads or for teachers looking for a text for an honor class.

The IMO Compendium - Dušan Djukić 2010-11-25

This is the ultimate collection of challenging high-school-level mathematics problems. It is the result of a two year long collaboration to rescue these problems from old and scattered manuscripts, and produce the definitive source of

IMO practice problems in book form for the first time. This book attempts to gather all the problems and solutions appearing on the IMO and contains a grand total of 1900 problems. It is an invaluable resource for high-school students preparing for mathematics competitions, and for anyone who loves math.

The Long Song - Andrea Levy 2010-04-27

THE AUTHOR OF SMALL ISLAND TELLS THE STORY OF THE LAST TURBULENT YEARS OF SLAVERY AND THE EARLY YEARS OF FREEDOM IN NINETEENTH-CENTURY JAMAICA Small Island introduced Andrea Levy to America and was acclaimed as "a triumph" (San Francisco Chronicle). It won both the Orange Prize and the Whitbread Book of the Year Award, and has sold over a million copies worldwide. With *The Long Song*, Levy once again reinvents the historical novel. Told in the irresistibly willful and intimate voice of Miss July, with some editorial assistance from her son, Thomas, *The Long Song* is at once defiant, funny, and shocking. The child of a field slave on the Amity sugar plantation, July lives with her mother until Mrs. Caroline Mortimer, a recently transplanted English widow, decides to move her into the great house and rename her "Marguerite." Resourceful and mischievous, July soon becomes indispensable to her mistress. Together they live through the bloody Baptist war, followed by the violent and chaotic end of slavery. Taught to read and write so that she can help her mistress run the business, July remains bound to the plantation despite her "freedom." It is the arrival of a young English overseer, Robert Goodwin, that will dramatically change life in the great house for both July and her mistress. Prompted and provoked by her son's persistent questioning, July's resilience and heartbreak are gradually revealed in this extraordinarily powerful story of slavery, revolution, freedom, and love.

Microprediction - Peter Cotton 2022-11-08

How a web-scale network of autonomous micromanagers can challenge the AI revolution and combat the high cost of quantitative business optimization. The artificial intelligence (AI) revolution is leaving behind small businesses and

organizations that cannot afford in-house teams of data scientists. In *Microprediction*, Peter Cotton examines the repeated quantitative tasks that drive business optimization from the perspectives of economics, statistics, decision making under uncertainty, and privacy concerns. He asks what things currently described as AI are not "microprediction," whether microprediction is an individual or collective activity, and how we can produce and distribute high-quality microprediction at low cost. The world is missing a public utility, he concludes, while companies are missing an important strategic approach that would enable them to benefit—and also give back. In an engaging, colloquial style, Cotton argues that market-inspired "superminds" are likely to be very effective compared with other orchestration mechanisms in the domain of microprediction. He presents an ambitious yet practical alternative to the expensive "artisan" data science that currently drains money from firms. Challenging the machine learning revolution and exposing a contradiction at its heart, he offers engineers a new liberty: no longer reliant on quantitative experts, they are free to create intelligent applications using general-purpose application programming interfaces (APIs) and libraries. He describes work underway to encourage this approach, one that he says might someday prove to be as valuable to businesses—and society at large—as the internet.

Problem-Solving Methods in Combinatorics - Pablo Soberón 2013-03-20

Every year there is at least one combinatorics problem in each of the major international mathematical olympiads. These problems can only be solved with a very high level of wit and creativity. This book explains all the problem-solving techniques necessary to tackle these problems, with clear examples from recent contests. It also includes a large problem section for each topic, including hints and full solutions so that the reader can practice the material covered in the book.□ The material will be useful not only to participants in the olympiads and their coaches but also in university courses on combinatorics.