

Mirror symmetry is a phenomenon arising in string theory in which two very different manifolds give rise to equivalent physics. Such a correspondence has significant mathematical consequences, the most familiar of which involves the enumeration of holomorphic curves inside complex manifolds by solving differential equations obtained from a "mirror" geometry. The inclusion of D-brane states in the equivalence has led to further conjectures involving calibrated submanifolds of the mirror pairs and new (conjectural) invariants of complex manifolds: the Gopakumar Vafa invariants. This book aims to give a single, cohesive treatment of mirror symmetry from both the mathematical and physical viewpoint. Parts 1 and 2 develop the necessary mathematical and physical background "from scratch," and are intended for readers trying to learn across disciplines. The treatment is focussed, developing only the material most necessary for the task. In Parts 3 and 4 the physical and mathematical proofs of mirror symmetry are given. From the physics side, this means demonstrating that two different physical theories give isomorphic physics. Each physical theory can be described geometrically, and thus mirror symmetry gives rise to a "pairing" of geometries. The proof involves applying $R \rightarrow 1/R$ circle duality to the phases of the fields in the gauged linear sigma model. The mathematics proof develops Gromov-Witten theory in the algebraic setting, beginning with the moduli spaces of curves and maps, and uses localization techniques to show that certain hypergeometric functions encode the Gromov-Witten invariants in genus zero, as is predicted by mirror symmetry. Part 5 is devoted to advanced topics in mirror symmetry, including the role of D-branes in the context of mirror symmetry, and some of their applications in physics and mathematics: topological strings and large N Chern-Simons theory; geometric engineering; mirror symmetry at higher genus; Gopakumar-Vafa invariants; and Kontsevich's formulation of the mirror phenomenon as an equivalence of categories. This book grew out of an intense, month-long course on mirror symmetry at Pine Manor College, sponsored by the Clay Mathematics Institute. The lecturers have tried to summarize this course in a coherent, unified text.

The Iron Giant

Infectious Disease Epidemiology is a concise reference guide which provides trainees and practicing epidemiologists with the information that they need to understand the basic concepts necessary for working in this specialist area. Divided into two sections, part one comprehensively covers the basic principles and methods relevant to the study of infectious disease epidemiology. It is organised in order of increasing complexity, ranging from a general introduction to subjects such as mathematical modelling and sero-epidemiology. Part two examines key major infectious diseases that are of global significance. Grouped by their route of transmission for ease of reference, they include diseases that present a particular burden or a high potential for causing mortality. This practical guide will be essential reading for postgraduate students in infectious disease epidemiology, health protection trainees, and practicing epidemiologists.

Are Filter Bubbles Real?

Illustrations and easy-to-read, rhyming text show what makes summer special,

from sunshine and sailboats to ice cream and picnics.

Data Science For Cyber-security

Social media platforms do not just circulate political ideas, they support manipulative disinformation campaigns. While some of these disinformation campaigns are carried out directly by individuals, most are waged by software, commonly known as bots, programmed to perform simple, repetitive, robotic tasks. Some social media bots collect and distribute legitimate information, while others communicate with and harass people, manipulate trending algorithms, and inundate systems with spam. Campaigns made up of bots, fake accounts, and trolls can be coordinated by one person, or a small group of people, to give the illusion of large-scale consensus. Some political regimes use political bots to silence opponents and to push official state messaging, to sway the vote during elections, and to defame critics, human rights defenders, civil society groups, and journalists. This book argues that such automation and platform manipulation, amounts to a new political communications mechanism that Samuel Woolley and Philip N. Noward call "computational propaganda." This differs from older styles of propaganda in that it uses algorithms, automation, and human curation to purposefully distribute misleading information over social media networks while it actively learns from and mimicks real people so as to manipulate public opinion across a diverse range of platforms and device networks. This book includes cases of computational propaganda from nine countries (both democratic and authoritarian) and four continents (North and South America, Europe, and Asia), covering propaganda efforts over a wide array of social media platforms and usage in different types of political processes (elections, referenda, and during political crises).

I See Summer

Jonathan Swift lived through a period of turbulence and innovation in the evolution of the book. His publications, perhaps more than those of any other single author, illustrate the range of developments that transformed print culture during the early Enlightenment. Swift was a prolific author and a frequent visitor at the printing house, and he wrote as critic and satirist about the nature of text. The shifting moods of irony, complicity and indignation that characterise his dealings with the book trade add a layer of complexity to the bibliographic record of his published works. The essays collected here offer the first comprehensive, integrated survey of that record. They shed new light on the politics of the eighteenth-century book trade, on Swift's innovations as a maker of books, on the habits and opinions revealed by his commentary on printed texts and on the re-shaping of the Swiftian book after his death.

Conformal and Probabilistic Prediction with Applications

"Jesika is four and a half. She lives in a flat with her mother and baby brother and she knows a lot. She knows their flat is high up and the stairs are smelly. She knows she shouldn't draw on the peeling wallpaper or touch the broken window. And she knows she loves her mummy and baby brother Toby. She does not know

that their landlord is threatening to evict them and that Toby's cough is going to get much worse. Or that Paige, her new best friend, has a secret that will explode their world"--

Democrisis

Please note this title is suitable for any student studying: Exam Board: AQA Level: A Level Subject: Biology First teaching: September 2015 First exams: June 2017 Fully revised and updated for the new linear qualification, written and checked by curriculum and specification experts, this Student Book supports and extends students through the new course whilst delivering the maths, practical and synoptic skills needed to succeed in the new A Levels and beyond. The book uses clear straightforward explanations to develop true subject knowledge and allow students to link ideas together while developing essential exam skills.

Bangkok

"I love this book. Anything I spend my time on, I either have to learn something or be entertained, with this book I get both - along with great art direction. The only problem is that the people it takes the piss out of won't know how funny it is. But that's okay, they'll buy it thinking it's a genuine 'How to' guide." Dave Trott, Author and Advertising Legend. If you're a fan of books by people like Gary V and Simon Sinek, you should probably stop reading now. This book is the opposite of those. And not just because it won't be anywhere near as popular. *Delusions of Brandeur* is an antidote to the insanity that now pervades the marketing industry. A collection of articles, satirical posts and assorted miscellany, it is a no-holds-barred commentary on modern marketing, advertising and business. Is it an invaluable guide that will guarantee your marketing success? No. But is it exhaustively researched and full of evidence? Also no. So what the hell is in it for you, then? A fair amount of good sense, some laughs, and plenty of handy snippets that you can use at your next meeting with fans of Gary V and Simon Sinek. "Wallman slips into his Raging Bull costume and stampedes through the marketing industry smashing every bit of phony china in sight. What wonderful fun!" Bob Hoffman, Author, Former Advertising CEO, and the original Ad Contrarian. "Marketing leaders the world over, get your hands on this book. You may not have mine because I can't put it down (except when weeping with laughter)." Maureen Blandford, B2B Tech CMO, Author. "Marketing has been walking around in the emperor's new clothes, with a big pair of shiny new AI/VR bollocks on public display, but Ryan has thankfully come along and lopped them off with his sharp satirical scythe of perceptive brilliance." Giles Edwards, Co-Founder and Creative Director at Gasp. "As with all really good satire, smuggled inside every one of Wallman's lovingly-crafted jokes is a serious message: that too many marketers reject proven principles for unproven pseudo-science, plain English for pretentious marketing jargon, the tried and tested for the shiny and new." Tom Roach, Head of Effectiveness at adam&eveDDB. "A former doctor takes a scalpel to the advertising industry. Not only is this a marvellous book - but no one but Dr. Wallman could have written it." Rory Sutherland, Vice Chairman at Ogilvy UK, TED Global speaker, Author. "Is it a guide book for our industry? Or is it a good laugh at our industry? It's both. It's Ryan at his most erudite and entertaining. And it's Gasp at their most gorgeous. Get it to get ahead - or to get the hell out of the mess we've made of

marketing, branding and advertising." Vikki Ross, Copy Chief. "Thoroughly digestible, very insightful, loads of great tips (for people who are trapped in places where the bullshit is inescapable) and funny as fuck - cutting through the nonsense in the way that only Ryan knows how. Top work." Dave Harland, Copywriter. "The good Doctor slides his satirical blade between the Marketing body's ribs using humour as laughing gas. Just wait 'til they all come round. And it's not as funny as they thought." Mark Sareff, Director at Prophecy Consulting & former Chief Strategy Officer at Ogilvy Australia. "Marketing as we know it is dead. It's just been completely annihilated by Ryan Wallman. Somewhere between a comedy roast and a how-not-to guide, this book is an utter goldmine for the beginners, side-splitting for the seasoned, and utterly baffling for the 'experts'. Satire so sharp it will slice you - and you'll say thank you." Clare Barry, Copywriter and Queen of Sass. A Gasp Book (published by Gasp 2019)

Picasso Lithographs

Written by curriculum and specification experts, this Student Book supports and extends students through the new linear course while delivering the breadth, depth, and skills needed to succeed in the new A Levels and beyond. It develops real subject knowledge as well as essential exam skills.

Quantum Theory Cannot Hurt You

A parade through Bangkok's outposts of good food, design, retail, and more, this definitive travel guide will make you feel like a local no matter where you are from.

A Level Biology a for OCR: A Level: A Level Biology a for OCR Student Book

We've had the credit crunch and afterwards a deep economic recession. Now get ready for a sovereign debt crisis after the biggest rise in government debt globally since world war two.

Human Robotics

Kick Off!

Infectious Disease Epidemiology

A synthesis of biomechanics and neural control that draws on recent advances in robotics to address control problems solved by the human sensorimotor system. This book proposes a transdisciplinary approach to investigating human motor control that synthesizes musculoskeletal biomechanics and neural control. The authors argue that this integrated approach—which uses the framework of robotics to understand sensorimotor control problems—offers a more complete and accurate description than either a purely neural computational approach or a purely biomechanical one. The authors offer an account of motor control in which

explanatory models are based on experimental evidence using mathematical approaches reminiscent of physics. These computational models yield algorithms for motor control that may be used as tools to investigate or treat diseases of the sensorimotor system and to guide the development of algorithms and hardware that can be incorporated into products designed to assist with the tasks of daily living. The authors focus on the insights their approach offers in understanding how movement of the arm is controlled and how the control adapts to changing environments. The book begins with muscle mechanics and control, progresses in a logical manner to planning and behavior, and describes applications in neurorehabilitation and robotics. The material is self-contained, and accessible to researchers and professionals in a range of fields, including psychology, kinesiology, neurology, computer science, and robotics.

Supporting Students in Online Open and Distance Learning

This first report deals with some of the major development issues confronting the developing countries and explores the relationship of the major trends in the international economy to them. It is designed to help clarify some of the linkages between the international economy and domestic strategies in the developing countries against the background of growing interdependence and increasing complexity in the world economy. It assesses the prospects for progress in accelerating growth and alleviating poverty, and identifies some of the major policy issues which will affect these prospects.

The Art of Statistics

This book provides a conceptual and empirical perspective on learning analytics, its goal being to disseminate the core concepts, research, and outcomes of this emergent field. Divided into nine chapters, it offers reviews oriented on selected topics, recent advances, and innovative applications. It presents the broad learning analytics landscape and in-depth studies on higher education, adaptive assessment, teaching and learning. In addition, it discusses valuable approaches to coping with personalization and huge data, as well as conceptual topics and specialized applications that have shaped the current state of the art. By identifying fundamentals, highlighting applications, and pointing out current trends, the book offers an essential overview of learning analytics to enhance learning achievement in diverse educational settings. As such, it represents a valuable resource for researchers, practitioners, and students interested in updating their knowledge and finding inspirations for their future work.

The Pirate Cruncher

These are turbulent times in the world of book publishing. For nearly five centuries the methods and practices of book publishing remained largely unchanged, but at the dawn of the twenty-first century the industry finds itself faced with perhaps the greatest challenges since Gutenberg. A combination of economic pressures and technological change is forcing publishers to alter their practices and think hard about the future of the books in the digital age. In this book - the first major study of trade publishing for more than 30 years - Thompson situates the current

challenges facing the industry in an historical context, analysing the transformation of trade publishing in the United States and Britain since the 1960s. He gives a detailed account of how the world of trade publishing really works, dissecting the roles of publishers, agents and booksellers and showing how their practices are shaped by a field that has a distinctive structure and dynamic. This new paperback edition has been thoroughly revised and updated to take account of the most recent developments, including the dramatic increase in ebook sales and its implications for the publishing industry and its future.

Financial Crises: Causes, Consequences, and Policy Responses

Democracy caused the debt crisis. Will it survive it? The question is whether new global leaders will stimulate the democratic model

World Development Report 1978

A new perspective on life satisfaction and well-being over the life course What makes people happy? The Origins of Happiness seeks to revolutionize how we think about human priorities and to promote public policy changes that are based on what really matters to people. Drawing on a range of evidence using large-scale data from various countries, the authors consider the key factors that affect human well-being, including income, education, employment, family conflict, health, childcare, and crime. The Origins of Happiness offers a groundbreaking new vision for how we might become more healthy, happy, and whole.

Everyday Economics

For thirty years, Peter Singer's Practical Ethics has been the classic introduction to applied ethics. For this third edition, the author has revised and updated all the chapters and added a new chapter addressing climate change, one of the most important ethical challenges of our generation. Some of the questions discussed in this book concern our daily lives. Is it ethical to buy luxuries when others do not have enough to eat? Should we buy meat from intensively reared animals? Am I doing something wrong if my carbon footprint is above the global average? Other questions confront us as concerned citizens: equality and discrimination on the grounds of race or sex; abortion, the use of embryos for research and euthanasia; political violence and terrorism; and the preservation of our planet's environment. This book's lucid style and provocative arguments make it an ideal text for university courses and for anyone willing to think about how she or he ought to live.

Learning Analytics: Fundamentals, Applications, and Trends

FT BUSINESS BOOK OF THE MONTH - MAY 'Ask forgiveness, not permission! A unique approach reminds me of the fun we've had with our airlines' - Sir Richard Branson 'I'd rather be a pirate than join the navy' Steve Jobs 'Totally compelling' Ed Miliband, Reasons to be Cheerful podcast 'A model for how to break the system and create radical change' Joy Lo Dico, Evening Standard 'Be More Pirate feels so important as it looks to history to help us grip the future' Martha Lane Fox CBE,

Founder of Lastminute.com 'This isn't a book, it's the beginning of a movement. Be More Pirate should come with a health warning' Tom Goodwin, author of Digital Darwinism 'A refreshing, entertaining and inspiring perspective on work, leadership and why we do what we do' Bruce Daisley, VP, Twitter 'A controversial call to arms, this contrarianism is exactly what we need to course correct 'the corporation'' Arlo Brady, CEO of Freud Communications ----- Pirates didn't just break the rules, they rewrote them. They didn't just reject society, they reinvented it. Pirates didn't just challenge the status-quo, they changed everything. Pirates faced a self-interested establishment, a broken system, industrial scale disruption and an uncertain future. Sound familiar? Pirates stood for MISCHIEF, PURPOSE and POWER. And you can too. In Be More Pirate, Sam Conniff Allende unveils the innovative strategies of Golden Age pirates, drawing parallels between the tactics and teachings of legends like Henry Morgan and Blackbeard with modern rebels, like Elon Musk, Malala and Banksy. Featuring takeaway sections and a guide to build your own pirate code 2.0, Be More Pirate will show you how to leave your mark on the 21st century. Whatever your ambitions, ideas and challenges, Be More Pirate will revolutionize the way you live, think and work today, and tomorrow. So what are you waiting for? Order now and join the rebellion. ----- Sam Conniff Allende is the founder and former CEO of Livity, a multi-award-winning youth marketing agency. Sam has led the unlikeliest collaborations between brands and bright young people on the edges of society, resulting in real innovation. He has worked with Google, Unilever, PlayStation and Dyson, and regularly speaks and runs Be More Pirate workshops at these industry-leading companies. Sam believes in the power of professional rule-breaking and is on a mission to instigate modern mutinies in organisations around the world, where the teams takeover the running of the ship to ultimately become more accountable, motivated and rebellious.

The Origins of Happiness

Be More Pirate

Daemonologie-in full Daemonologie, In Forme of a Dialogue, Divided into three Books: By the High and Mighty Prince, James &c.-was written and published in 1597 by King James VI of Scotland (later also James I of England) as a philosophical dissertation on contemporary necromancy and the historical relationships between the various methods of divination used from ancient black magic. This included a study on demonology and the methods demons used to bother troubled men while touching on topics such as werewolves and vampires. It was a political yet theological statement to educate a misinformed populace on the history, practices and implications of sorcery and the reasons for persecuting a witch in a Christian society under the rule of canonical law. This book is believed to be one of the main sources used by William Shakespeare in the production of Macbeth. Shakespeare attributed many quotes and rituals found within the book directly to the Weird Sisters, yet also attributed the Scottish themes and settings referenced from the trials in which King James was involved.

Punk CX

There has been much concern over the impact of partisan echo chambers and filter bubbles on public debate. Is this concern justified, or is it distracting us from more serious issues? Axel Bruns argues that the influence of echo chambers and filter bubbles has been severely overstated, and results from a broader moral panic about the role of online and social media in society. Our focus on these concepts, and the widespread tendency to blame platforms and their algorithms for political disruptions, obscure far more serious issues pertaining to the rise of populism and hyperpolarisation in democracies. Evaluating the evidence for and against echo chambers and filter bubbles, Bruns offers a persuasive argument for why we should shift our focus to more important problems. This timely book is essential reading for students and scholars, as well as anyone concerned about challenges to public debate and the democratic process.

Mirror Symmetry and Algebraic Geometry

This new addition to the respected Open and Distance Learning Series is an up-to-the-minute guide for educators wanting to come to terms with their support role in open and distance learning. Covering all aspects of student support from tuition and counselling through to the broad range of delivery methods available, the book offers practical solutions that are set within a sound theoretical framework.

Jonathan Swift and the Eighteenth-Century Book

LIMITED EDITION - 7'x7' HARDBACK - ORIGINAL CONCEPT
Emerging in the 1970s, prog rock was often accused of being overly technical, too elaborate, not focused on its audience and often in danger of disappearing up it's own a---! One could argue that the service and experience space is starting to exhibit some of the same characteristics namely it's in danger of becoming overly technical, benchmarked, frameworked, measured, codified, certified, specialized and functionalized etc etc. Punk exploded out of the back of prog rock with it's democratic, DIY, back to basics approach that inspired both a cultural and musical movement and change in mindset. It dared to be different and was OK with the fact that not everyone liked that. So, is it time to consider what a punk rock version of CX would look and feel like, particularly given that many reports suggest that around 70 percent of customer experience projects fail to deliver on their promises? If so, what would that look and feel like. Adrian Swinscoe in his new book 'Punk CX', tackles some of these questions and shares some key insights and practical takeaways that will allow you harness your inner punk and transform your own customer experience.

AQA Biology: A Level

Cyber-security is a matter of rapidly growing importance in industry and government. This book provides insight into a range of data science techniques for addressing these pressing concerns. The application of statistical and broader data science techniques provides an exciting growth area in the design of cyber defences. Networks of connected devices, such as enterprise computer networks or the wider so-called Internet of Things, are all vulnerable to misuse and attack, and data science methods offer the promise to detect such behaviours from the

vast collections of cyber traffic data sources that can be obtained. In many cases, this is achieved through anomaly detection of unusual behaviour against understood statistical models of normality. This volume presents contributed papers from an international conference of the same name held at Imperial College. Experts from the field have provided their latest discoveries and review state of the art technologies.

Moral Uncertainty

Computational Propaganda

Mathematicians wanting to get into the field will find a very well written and encyclopaedic account of the mathematics which was needed in, and was developed from, what now might be termed classical mirror symmetry. --Bulletin of the LMS The book is highly recommended for everyone who wants to learn about the fascinating recent interplay between physics and mathematics. --Mathematical Reviews Mirror symmetry began when theoretical physicists made some astonishing predictions about rational curves on quintic hypersurfaces in four-dimensional projective space. Understanding the mathematics behind these predictions has been a substantial challenge. This book is a completely comprehensive monograph on mirror symmetry, covering the original observations by the physicists through the most recent progress made to date. Subjects discussed include toric varieties, Hodge theory, Kahler geometry, moduli of stable maps, Calabi-Yau manifolds, quantum cohomology, Gromov-Witten invariants, and the mirror theorem.

New Head Start to A-Level Biology

CLUBBED

The two towering achievements of modern physics are quantum theory and Einstein's general theory of relativity. Together, they explain virtually everything about the world we live in. But, almost a century after their advent, most people haven't the slightest clue what either is about. Did you know that there's so much empty space inside matter that the entire human race could be squeezed into the volume of a sugar cube? Or that you grow old more quickly on the top floor of a building than on the ground floor? And did you realize that 1% of the static on a TV tuned between stations is the relic of the Big Bang? Marcus Chown, the bestselling author of *What A Wonderful World* and the Solar System app, explains all with characteristic wit, colour and clarity, from the Big Bang and Einstein's general theory of relativity to probability, gravity and quantum theory. 'Chown discusses special and general relativity, probability waves, quantum entanglement, gravity and the Big Bang, with humour and beautiful clarity, always searching for the most vivid imagery.' Steven Poole, Guardian

Image Fusion

The fearsome iron giant becomes a hero when he challenges a huge space monster.

Home

A mysterious old pirate lures a group of rowdy sailors to an island with buried treasure, but there is a surprise awaiting them when they get there.

Sovereign DisCredit

How should we make decisions when we're uncertain about what we ought, morally, to do? Decision-making in the face of fundamental moral uncertainty is underexplored terrain: MacAskill, Bykvist, and Ord argue that there are distinctive norms by which it is governed, and which depend on the nature of one's moral beliefs.

Delusions of Brandeur

This book explores the role played by the individual in the economy, in particular, how the individual experiences the economy. It shows the role of government, markets, and welfare in shaping our lives, providing an overview of the workings of the economy that takes as its starting point the interface between the individual and the system.

Merchants of Culture

This book constitutes the refereed proceedings of the 5th International Symposium on Conformal and Probabilistic Prediction with Applications, COPA 2016, held in Madrid, Spain, in April 2016. The 14 revised full papers presented together with 1 invited paper were carefully reviewed and selected from 23 submissions and cover topics on theory of conformal prediction; applications of conformal prediction; and machine learning.

A Level Biology

Financial Crises: Causes, Consequences, and Policy Responses provides a comprehensive overview of research into financial crises and policy lessons learned. The book covers a wide range of crises, including banking, balance of payments, and sovereign debt crises. It begins with an overview of the various types of crises and introduces a comprehensive database of crises. Broad lessons on crisis prevention and management, as well as the short-term economic effects of crises, recessions, and recoveries are discussed. The medium-term effects of financial crises on economic growth, as well as policy measures to prevent booms, mitigate busts, and avoid crises are analyzed. Finally, policy measures for mitigating the adverse impact of crises and ways to restructure banks, households, and sovereigns are presented. The collection of research in this book provides an excellent overview of critical policy areas, with valuable lessons on how countries can better monitor their economies and financial systems.

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)