



# [Book] Mathematics For Human Flourishing

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**Mathematics for Human Flourishing**-Francis Su 2020-01-07 Winner of the Mathematics Association of America's 2021 Euler Book Prize, this is an inclusive vision of mathematics—its beauty, its humanity, and its power to build virtues that help us all flourish“This is perhaps the most important mathematics book of our time. Francis Su shows mathematics is an experience of the mind and, most important, of the heart.”—James Tanton, Global Math Project"A good book is an entertaining read. A great book holds up a mirror that allows us to more clearly see ourselves and the world we live in. Francis Su’s Mathematics for Human Flourishing is both a good book and a great book."—MAA Reviews For mathematician Francis Su, a society without mathematical affection is like a city without concerts, parks, or museums. To miss out on mathematics is to live without experiencing some of humanity’s most beautiful ideas.In this profound book, written for a wide audience but especially for those disenchanted by their past experiences, an award-winning mathematician and educator weaves parables, puzzles, and personal reflections to show how mathematics meets basic human desires—such as for play, beauty, freedom, justice, and love—and cultivates virtues essential for human flourishing. These desires and virtues, and the stories told here, reveal how mathematics is intimately tied to being human. Some lessons emerge from those who have struggled, including philosopher Simone Weil, whose own mathematical contributions were overshadowed by her brother’s, and Christopher Jackson, who discovered mathematics as an inmate in a federal prison. Christopher’s letters to the author appear throughout the book and show how this intellectual pursuit can—and must—be open to all.

**Mathematics for Human Flourishing**-Francis Su 2020-01-07 "The ancient Greeks argued that the best life was filled with beauty, truth, justice, play and love. The mathematician Francis Su knows just where to find them."--Kevin Hartnett, Quanta Magazine" This is perhaps the most important mathematics book of our time. Francis Su shows mathematics is an experience of the mind and, most important, of the heart."--James Tanton, Global Math Project For mathematician Francis Su, a society without mathematical affection is like a city without concerts, parks, or museums. To miss out on mathematics is to live without experiencing some of humanity's most beautiful ideas. In this profound book, written for a wide audience but especially for those disenchanted by their past experiences, an award-winning mathematician and educator weaves parables, puzzles, and personal reflections to show how mathematics meets basic human desires--such as for play, beauty, freedom, justice, and love--and cultivates virtues essential for human flourishing. These desires and virtues, and the stories told here, reveal how mathematics is intimately tied to being human. Some lessons emerge from those who have struggled, including philosopher Simone Weil, whose own mathematical contributions were overshadowed by her brother's, and Christopher Jackson, who discovered mathematics as an inmate in a federal prison. Christopher's letters to the author appear throughout the book and show how this intellectual pursuit can--and must--be open to all.

**Mathematics for Human Flourishing**-Francis Su 2021-02-02 An inclusive vision of mathematics–its beauty, its humanity, and its power to build virtues that help us all flourish

**A Mathematician's Lament**-Paul Lockhart 2009-04-01 “One of the best critiques of current mathematics education I have ever seen.”—Keith Devlin, math columnist on NPR’s Morning Edition A brilliant research mathematician who has devoted his career to teaching kids reveals math to be creative and beautiful and rejects standard anxiety-producing teaching methods. Witty and accessible, Paul Lockhart’s controversial approach will provoke spirited debate among educators and parents alike and it will alter the way we think about math forever. Paul Lockhart, has taught mathematics at Brown University and UC Santa Cruz. Since 2000, he has dedicated himself to K-12 level students at St. Ann’s School in Brooklyn, New York.

**Human Flourishing in an Age of Gene Editing**-Erik Parens 2019-07-29 International uproar followed the recent announcement of the birth of twin girls whose genomes had been edited with a breakthrough DNA editing-technology. This technology, called clustered regularly interspaced short palindrome repeats or CRISPR-Cas9, can alter any DNA, including DNA in embryos, meaning that changes can be passed to the offspring of the person that embryo becomes. Should we use gene editing technologies to change ourselves, our children, and future generations to come? The potential uses of CRISPR-Cas9 and other gene editing technologies are unprecedented in human history. By using these technologies, we eradicate certain dreadful diseases, we eradicate certain dreadful diseases. Altering human DNA, however, raises enormously difficult questions. Some of these questions are about safety: Can these technologies be deployed without posing an unreasonable risk of physical harm to current and future generations? Can all physical risks be adequately assessed, and responsibly managed? But gene editing technologies also raise other moral questions, which touch on deeply held, personal, cultural, and societal values: Might such technologies redefine what it means to be healthy, or normal, or cherished? Might they undermine relationships between parents and children, or exacerbate the gap between the haves and have-nots? The broadest form of this second kind of question is the focus of this book: What might gene editing--and related technologies--mean for human flourishing? In the new essays collected here, an interdisciplinary group of scholars asks age--old questions about the nature and well-being of humans in the context of a revolutionary new biotechnology--one that has the potential to change the genetic make-up of both existing people and future generations. Welcoming readers who study related issues and those not yet familiar with the formal study of bioethics, the authors of these essays open up a conversation about the ethics of gene editing. It is through this conversation that citizens can influence laws and the distribution of funding for science and medicine, that professional leaders can shape understanding and use of gene editing and related technologies by scientists, patients, and practitioners, and that individuals can make decisions about their own lives and the lives of their families.

**Property and Human Flourishing**-Gregory S. Alexander 2018 Many people assume that what morally justifies private ownership of property is either individual freedom or social welfare, defined in terms of maximizing personal preference-satisfaction. This book offers an alternative way of understanding the moral underpinning of private ownership of property. Rather than identifying any single moral value, this book argues that human flourishing, understood as morally pluralistic and objective, is property’s moral foundation. The book goes on to develop a theory that connects ownership and human flourishing with obligations. Owners have obligations to members of the communities that enabled the owners to live flourishing lives by cultivating in their community members certain capabilities that are essential to leading a well-lived life. These obligations are rooted in the interdependence that exists between owners and their community members, and inherent in the human condition. Obligations have always been inherent in ownership. Owners are not free to inflict nuisances upon their neighbors, for example, by operating piggeries in residential neighborhoods. The human flourishing theory explains why owners at times have obligations that enable their fellow community members to develop certain necessary capabilities, such as health care and security. This is why, for example, farm owners may be required to allow providers of health care and legal assistance to enter their property to assist employees who are migrant workers. Moving from the abstract and theoretical to the practical, this book considers implications for a wide variety of property issues of importance both in the literature and in modern society. These include questions such as: When is a government's expropriation of property legitimated for the reason it is for public use? May the owner of a historic or architecturally significant house destroy it without restriction? Do institutions that owned African slaves or otherwise profited from the slave trade owe any obligations to members of the African-American community? What insights may be gained from the human flourishing concept into resolving current housing problems like homelessness, eviction, and mortgage foreclosure?

**Human Flourishing, Liberal Theory, and the Arts**-Menachem Mautner 2018-04-09 This book claims that in addition to autonomy, liberal tradition recognizes human flourishing as an ideal of the good life. There are two versions of the liberalism of flourishing: for one the good life consists in the ability of an individual to

develop her intellectual and moral capabilities, and for the other the good life is one in which an individual succeeds in materializing her varied human capabilities. Both versions expect the state to create the background conditions for flourishing. Combining the history of ideas with analytical political philosophy, Menachem Mautner finds the roots of the liberalism of flourishing in the works of great philosophers, and argues that for individuals to reach flourishing they need to engage with art. Art provides us with wisdom, insight, critical social and political thinking, and moral education. Thus, a state which practices the liberalism of flourishing must play an active role in funding the creation and dissemination of art. Consequently, the liberalism of flourishing is better equipped than autonomy liberalism to compete with religion in the domains of meaning and over the shape of the regime, the political culture and the law in countries in which liberalism is contested. Political theorists and lawyers will enjoy engaging with this version of liberalism, as will students of social democracy and art policy.

**Topology Through Inquiry**-Michael Starbird 2020-09-10 Topology Through Inquiry is a comprehensive introduction to point-set, algebraic, and geometric topology, designed to support inquiry-based learning (IBL) courses for upper-division undergraduate or beginning graduate students. The book presents an enormous amount of topology, allowing an instructor to choose which topics to treat. The point-set material contains many interesting topics well beyond the basic core, including continua and metrizability. Geometric and algebraic topology topics include the classification of 2-manifolds, the fundamental group, covering spaces, and homology (simplicial and singular). A unique feature of the introduction to homology is to convey a clear geometric motivation by starting with mod 2 coefficients. The authors are acknowledged masters of IBL-style teaching. This book gives students joy-filled, manageable challenges that incrementally develop their knowledge and skills. The exposition includes insightful framing of fruitful points of view as well as advice on effective thinking and learning. The text presumes only a modest level of mathematical maturity to begin, but students who work their way through this text will grow from mathematics students into mathematicians. Michael Starbird is a University of Texas Distinguished Teaching Professor of Mathematics. Among his works are two other co-authored books in the Mathematical Association of America’s (MAA) Textbook series. Francis Su is the Benediktsson-Karwa Professor of Mathematics at Harvey Mudd College and a past president of the MAA. Both authors are award-winning teachers, including each having received the MAA's Haimo Award for distinguished teaching. Starbird and Su are, jointly and individually, on lifelong missions to make learning—of mathematics and beyond—joyful, effective, and available to everyone. This book invites topology students and teachers to join in the adventure.

**Torah Old and New**-Ben Witherington III 2018-05-01 Reading the books of the Law, the Pentateuch, in their original context is the crucial prerequisite for reading their citation and use in later interpretation, including the New Testament writings, argues Ben Witherington III. Here, he offers pastors, teachers, and students an accessible commentary on the Pentateuch, as well as a reasoned consideration of how these books were heard and read in early Christianity. By reading "forward and backward," Witherington advances the scholarly discussion of intertextuality and opens a new avenue for biblical theology.

**Personal Project Pursuit**-Brian R. Little 2017-09-25 Personal Project Pursuit is the first book to feature Brian Little's highly respected personal projects analysis (PPA), one of the pioneering theories in contemporary personality and motivational psychology. The book examines both the internal and external dynamics of personal goals and projects and clearly demonstrates that human flourishing is enhanced when individuals are engaged in the pursuit of personal projects. The book opens with the theory and methodologies of personal projects research. The historical perspective on the development of the two dominant research perspectives from personality and developmental psychology is explored. Section II examines the internal dynamics and competing demands of goal formulation and project inception. The third part accentuates the role that social ecologies play in shaping the nature and outcomes of personal projects. These chapters highlight the importance of interpersonal relationships, organizational contexts, and the societal and cultural expectations in affecting the pursuit of personal projects. Ideas for orchestrating the environment to enhance human flourishing are explored. Section IV demonstrates how personal projects can illuminate and enhance human flourishing, from psychological well being to physical health. The book concludes with applications for enhancing human flourishing from individual counseling to public policy. Personal Project Pursuit is intended for advanced students, researchers, and practitioners in personality, social, developmental, industrial/organizational, health, environmental, clinical and counseling psychology interested in motivation and well being. An excellent supplemental text for courses on personality, motivation, positive psychology, well being, personal and life span development, the book's applied focus will appeal to counselors and rehabilitation/occupational therapists.

**Freedom and Environment**-Michael Hannis 2015-10-05 Must freedom be sacrificed to achieve ecological sustainability - or vice versa? Can we be genuinely free and live in sustainable societies? This book argues that we can, if we recognise and celebrate our ecological embeddedness, rather than seeking to transcend it. But this does not mean freedom can simply be redefined to fit within ecological limits. Addressing current unsustainability will involve significant restrictions, and hence will require political justification, not just scientific evidence. Drawing on material from perfectionist liberalism, capabilities approaches, human rights, relational ethics and virtue theory, Michael Hannis explores the relationship between freedom and sustainability, considering how each contributes to human flourishing. He argues that a substantive and ecologically literate conception of human flourishing can underpin both capability-based environmental rights and a eudaimonist ecological virtue ethics. With such a foundation in place, public authorities can act both to facilitate ecological virtue, and to remove structural incentives to ecological vice. Freedom and Environment is a lucid addition to existing literature in environmental politics and virtue ethics, and will be an excellent resource to those studying debates about freedom with debates about ecological sustainability.

**Mathematics Through the Eyes of Faith**-Russell Howell Book description to come.

**Power in Numbers**-Talithia Williams 2018-04-10 From rocket scientists to code breakers, discover the incredibly inspiring stories of more than 30 women who fought through the obstacles, shattered the stereotypes, and embraced their STEM passions. Prepare to be inspired. With more than 200 photos and original interviews with several of the amazing women covered, Power in Numbers: The Rebel Women of Mathematics is a full-color volume that takes aim at the forgotten influence of women on the development of mathematics over the last two millennia. Each biography reveals the amazing life of a different female mathematician, from her childhood and early influences, to the obstacles she faced and the great achievements she made in spite of them. Learn how: After her father terminated her math lessons, Sofia Kovalevskaya snuck algebra books into her bed to read at night. Emmy Noether became an invaluable resource to Albert Einstein while she was in the Navy. Native American rocket scientist Mary Golda Ross developed designs for fighter jets and missiles in a top-secret unit. Katherine Johnson's life-or-death calculations at NASA meant that astronauts such as Alan Shepard and John Glenn made it home alive. Shakuntala Devi multiplied massive numbers in her head so her family could eat at night. Pamela Harris proved her school counselors wrong when they told her she would only succeed as a bilingual secretary. Carla Cotwright-Williams began her life in the dangerous streets of South-Central Los Angeles before skyrocketing to a powerful career with the Department of Defense in Washington DC. One thing uniting these women’s stories is that at some point on their journeys, someone believed in them; someone made them think the impossible was perhaps not so impossible. May their stories empower the next generation of STEM rebels to continue advancing mathematical theory, bringing awareness to the field, and increasing our Power in Numbers.

**Inventing the Mathematician**-Sara N. Hottinger 2016-03-01 Considers how our ideas about mathematics shape our individual and cultural relationship to the field. Where and how do we, as a culture, get our ideas about mathematics and about who can engage with mathematical knowledge? Sara N. Hottinger uses a cultural studies approach to address how our ideas about mathematics shape our individual and cultural relationship to the field. She considers four locations in which representations of mathematics contribute to our cultural understanding of mathematics: mathematics textbooks, the history of mathematics, portraits of mathematicians, and the field of ethnomathematics. Hottinger examines how these discourses shape mathematical subjectivity by limiting the way some groups—including women and people of color—are able to see themselves as practitioners of math. Inventing the Mathematician provides a blueprint for how to engage in a deconstructive project, revealing the limited and problematic nature of the normative construction of mathematical subjectivity.

**Civil Happiness**-Luigino Bruni 2006-04-18 Economists have long laboured under the misapprehension that all humans exist as rational beings that find happiness in maximizing their personal utility. This impressive volume presents an historical review of the evolution of economic thought, from economic philosophy to contemporary mathematical economics, and its critique of how the human and social dimensions of economics have been lost in this evolutionary process. Examining the crucial period in the late eighteenth century when economists such Smith and Genovesi tried to reconcile the classical tradition of Civil humanism emerging commercial society, this key book analyses the impact that the hedonist approach to economics had in removing the ethical conception of happiness. In addition, it focuses on the impact that J.S. Mill, Wicksteed and Pareto had in shifting methodological thinking away from an emphasis on civil happiness. Simply put, this book is essential reading for economists everywhere.

**The Politics of Actually Existing Unsustainability**-John Barry 2012-02-23 At the level of developing a progressive and critical theoretical understanding of unsustainability, it argues for the importance of integrating vulnerability, which has been largely neglected by both mainstream western political theory and analyses of the current global ecological crisis. It suggests that valuable insights into the causes of and alternatives to unsustainability can be found in a critical embracing of human vulnerability and dependency as both constitutive and ineliminable aspects of what it means to be human. Rather than seeing invulnerability as the appropriate response, the book defends resilience, and the ability to 'cope with' rather than 'solve' vulnerability, as more productive.

**Living Proof**-Allison K. Henrich 2019 Wow! This is a powerful book that addresses a long-standing elephant in the mathematics room. Many people learning math ask ``Why is math so hard for me while everyone else understands it?" and ``Am I good enough to succeed in math?" In answering these questions the book shares personal stories from many now-accomplished mathematicians affirming that ``You are not alone; math is hard for everyone" and ``Yes; you are good enough." Along the way the book addresses other issues such as biases and prejudices that mathematicians encounter, and it provides inspiration and emotional support for mathematicians ranging from the experienced professor to the struggling mathematics student. --Michael Dorff, MAA President This book is a remarkable collection of personal reflections on what it means to be, and to become, a mathematician. Each story reveals a unique and refreshing understanding of the barriers erected by our cultural focus on ``math is hard." Indeed, mathematics is hard, and so are many other things--as Benign Kennedy points out in his cogent introduction. This collection of essays offers inspiration to students of mathematics and to mathematicians at every career stage. --Jill Pipher, AMS President This book is published in cooperation with the Mathematical Association of America.

**Automation and Utopia**-John Danaher 2019-09-24 Automating technologies threaten to usher in a workless future, but John Danaher argues that this can be a good thing. A world without work may be a kind of utopia, free of the misery of the job and full of opportunities for creativity and exploration. If we play our cards right, automation could be the path to idealized forms of human flourishing.

**Math with Bad Drawings**-Ben Orlin 2018-09-18 A hilarious reeducation in mathematics-full of joy, jokes, and stick figures-that sheds light on the countless practical and wonderful ways that math structures and shapes our world. In Math With Bad Drawings, Ben Orlin reveals to us what math actually is; its myriad uses, its strange symbols, and the wild leaps of logic and faith that define the usually impenetrable work of the mathematician. Truth and knowledge come in multiple forms: colorful drawings, encouraging jokes, and the stories and insights of an empathetic teacher who believes that math should belong to everyone. Orlin shows us how to think like a mathematician by teaching us a brand-new game of tic-tac-toe, how to understand an economic crises by rolling a pair of dice, and the mathematical headache that ensues when attempting to build a spherical Death Star. Every discussion in the book is illustrated with Orlin's trademark "bad drawings," which convey his message and insights with perfect pitch and clarity. With 24 chapters covering topics from the electoral college to human genetics to the reasons not to trust statistics, Math with Bad Drawings is a life-changing book for the math-estranged and math-enamored alike.

**Positive Psychology in Practice**-Stephen Joseph 2015-03-30 The best minds in positive psychology survey the state of the field Positive Psychology in Practice, Second Edition moves beyond the theoretical to show how positive psychology is being used in real-world settings, and the new directions emerging in the field. An international team of contributors representing the best and brightest in the discipline review the latest research, discuss how the findings are being used in practice, explore new ideas for application, and discuss focus points for future research. This updated edition contains new chapters that explore the intersection between positive psychology and humanistic psychology, salugenesis, hedonism, and eudaimonism, and more, with deep discussion of how the field is integrating with the new areas of self-help, life coaching, social work, rehabilitation psychology, and recovery-oriented service systems. This book explores the challenges and opportunities in the field, providing readers with the latest research and consensus on practical application. Get up to date on the latest research and practice findings Integrate positive psychology into assessments, life coaching, and other therapies Learn how positive psychology is being used in schools Explore possible directions for new research to push the field forward Positive psychology is being used in areas as diverse as clinical, counseling, forensic, health, educational, and industrial/organizational settings, in a wide variety of interventions and applications. Psychologists and other mental health professionals who want to promote human flourishing and well-being will find the second edition of Positive Psychology in Practice to be an informative, comprehensive guide.

**Naturalism, Human Flourishing, and Asian Philosophy**-Bongrae Seok 2019-10-10 Naturalism, Human Flourishing, and Asian Philosophy: Owen Flanagan and Beyond is an edited volume of philosophical essays focusing on Owen Flanagan’s naturalized comparative philosophy and moral psychology of human flourishing. Flanagan is a philosopher well-known for his naturalized approach to philosophical issues such as meaning, physicalism, causation, and consciousness in the analytic school of Western philosophy. Recently, he develops his philosophical interest in Asian philosophy and discusses diverse philosophical issues of human flourishing, Buddhism and Confucianism from comparative viewpoints. The current volume discusses his philosophy of human flourishing and his naturalized approaches to Buddhism and Confucianism. The volume consists of five sections with eleven chapters written by leading experts in the fields of philosophy, religion, and psychology. The first section is an introduction to Flanagan’s philosophy. The introductory chapter provides a general overview of Flanagan’s philosophy, i.e., his philosophy of naturalization, comparative approach to human flourishing, and detailed summaries of the following chapters. In the second section, the three chapters discuss Flanagan’s naturalized eudaimonics of human flourishing. The third section discusses Flanagan’s naturalized Buddhism. The fourth section analyzes Flanagan’s interpretation of Confucian philosophy (specifically Mencius’s moral sprouts), from the viewpoint of moral modularity and human flourishing. The fifth section is Flanagan’s responses to the comments and criticisms developed in this volume.

**The Best Writing on Mathematics 2018**-Mircea Pitici 2018-12-04 The year’s finest mathematical writing from around the world This annual anthology brings together the year’s finest mathematics writing from around the world. Featuring promising new voices alongside some of the foremost names in the field, The Best Writing on Mathematics 2018 makes available to a wide audience many pieces not easily found anywhere else—and you don’t need to be a mathematician to enjoy them. These essays delve into the history, philosophy, teaching, and everyday aspects of math, offering surprising insights into its nature, meaning, and practice—and taking readers behind the scenes of today’s hottest mathematical debates. James Grime shows how to build subtly mischievous dice for playing slightly unfair games

and Michael Barany traces how our appreciation of the societal importance of mathematics has developed since World War II. In other essays, Francis Su extolls the inherent values of learning, doing, and sharing mathematics, and Margaret Wertheim takes us on a mathematical exploration of the mind and the world—with glimpses at science, philosophy, music, art, and even crocheting. And there’s much, much more. In addition to presenting the year’s most memorable math writing, this must-have anthology includes an introduction by the editor and a bibliography of other notable pieces on mathematics. This is a must-read for anyone interested in where math has taken us—and where it is headed.

**Religion and Human Flourishing**-Professor Adam B Cohen 2020-09 When talking about the relationship between religion and flourishing, the first task is to frame the question theologically and philosophically, and this entails taking seriously the potential challenges latent in the issue. These challenges include—beyond the contested definitions of both religion and flourishing--the claims of some faith traditions that true adherence to that tradition's goals and intrinsic goods can be incompatible with self-interest, and also the fact that religious definitions of health and wholeness tend to be less concrete than secular definitions. Despite the difficulties, research that considers uniquely religious aspects of human flourishing is essential, as scholars pursue even greater methodological rigor in future investigations of causal connections. Religion and Human Flourishing brings together scholars of various specializations to consider how theological and philosophical perspectives might shape such future research, and how such research might benefit religious communities. The first section of the book takes up the foundational theological and philosophical questions. The next section turns to the empirical dimension and encompasses perspectives ranging from anthropology to psychology. The third and final section of the book follows in the empirical mold by moving to more sociological and economic levels of analysis. The concluding reflection offers a survey of what the social scientific research reveals about both the positive and negative effects of religion. Scholars and laypeople alike are interested in religion, and many more still are interested in how to lead a meaningful life--how to flourish. The collaborative undertaking represented by Religion and Human Flourishing will further attest to the perennial importance of the questions of religious belief and the pursuit of the good life, and will become a standard for further exploration of such questions.

**Change Is the Only Constant**-Ben Orlin 2019-10-08 The next book from Ben Orlin, the popular math blogger and author of the underground bestseller Math With Bad Drawings. Change Is The Only Constant is an engaging and eloquent exploration of the intersection between calculus and daily life, complete with Orlin's sly humor and wonderfully bad drawings. Change is the Only Constant is an engaging and eloquent exploration of the intersection between calculus and daily life, complete with Orlin's sly humor and memorably bad drawings. By spinning 28 engaging mathematical tales, Orlin shows us that calculus is simply another language to express the very things we humans grapple with every day -- love, risk, time, and most importantly, change. Divided into two parts, "Moments" and "Eternities," and drawing on everyone from Sherlock Holmes to Mark Twain to David Foster Wallace, Change is the Only Constant unearths connections between calculus, art, literature, and a beloved dog named Elvis. This is not just math for math's sake; it's math for the sake of becoming a wiser and more thoughtful human.

**Burn Math Class**-Jason Wilkes 2016-03-22 Forget everything you’ve been taught about math. In Burn Math Class, Jason Wilkes takes the traditional approach to mathematics education—with its unwelcoming textbooks, unexplained rules, and authoritarian assertions—and sets it on fire. Focusing on how mathematics is created rather than on mathematical facts, Wilkes teaches the subject in a way that requires no memorization and no prior knowledge beyond addition and multiplication. From these simple foundations, Burn Math Class shows how mathematics can be (re)invented from scratch without preexisting textbooks and courses. We can discover math on our own through experimentation and failure, without appealing to any outside authority. When math is created free from arcane notations and pretentious jargon that hide the simplicity of mathematical concepts, it can be understood organically—and it becomes fun! Following this unconventional approach, Burn Math Class leads the reader from the basics of elementary arithmetic to various “advanced” topics, such as time-dilation in special relativity, Taylor series, and calculus in infinite-dimensional spaces. Along the way, Wilkes argues that orthodox mathematics education has been teaching the subject backward: calculus belongs before many of its so-called prerequisites, and those prerequisites cannot be fully understood without calculus. Like the smartest, craziest teacher you’ve ever had, Wilkes guides you on an adventure in mathematical creation that will radically change the way you think about math. Revealing the beauty and simplicity of this timeless subject, Burn Math Class turns everything that seems difficult about mathematics upside down and sideways until you understand just how easy math can be.

**Reassessing Marx’s Social and Political Philosophy**-Jan Kandiyali 2018-05-24 Interest in the study of Marx’s thought has shown a revival in recent years, with a number of newly established academic societies, conferences, and journals dedicated to discussing his thought. This book brings together distinguished and up-and-coming scholars to provide a major re-evaluation of historical issues in Marx scholarship and to connect Marx’s ideas with fresh debates in contemporary Anglo-American social and political philosophy. Among the topics discussed are Marx’s relationship to his philosophical predecessors—including Hegel, the young Hegelians, and the utopian socialists—his concept of recognition, his critique of liberalism, and his views on the good life. This book will be of interest to scholars and advanced students interested in Marx, Hegel, the history of political thought, and social and political philosophy.

**The Sermon on the Mount and Human Flourishing**-Jonathan T. Pennington 2017-06-20 The Sermon on the Mount, one of the most influential portions of the Bible, is the most studied and commented upon portion of the Christian Scriptures. Every Christian generation turns to it for insight and guidance. In this volume, a recognized expert on the Gospels shows that the Sermon on the Mount offers a clear window into understanding God's work in Christ. Jonathan Pennington provides a historical, theological, and literary commentary on the Sermon and explains how this text offers insight into God's plan for human flourishing. As Pennington explores the literary dimensions and theological themes of this famous passage, he situates the Sermon in dialogue with the Jewish and Greek virtue traditions and the philosophical-theological question of human flourishing. He also relates the Sermon's theological themes to contemporary issues such as ethics, philosophy, and economics.

**Rehumanizing Mathematics for Black, Indigenous, and Latinx Students**-Imani Goffney 2018 Mathematics education will never truly improve until it adequately addresses those students whom the system has most failed. The 2018 volume of Annual Perspectives in Mathematics Education (APME) series showcases the efforts of classroom teachers, school counselors and administrators, teacher educators, and education researchers to ensure mathematics teaching and learning is a humane, positive, and powerful experience for students who are Black, Indigenous, and/or Latinx. The book's chapters are grouped into three sections: Attending to Students' Identities through Learning, Professional Development That Embraces Community, and Principles for Teaching and Teacher Identity. To turn our schools into places where children who are Indigenous, Black, and Latinx can thrive, we need to rehumanize our teaching practices. The chapters in this volume describe a variety of initiatives that work to place these often marginalized students--and their identities, backgrounds, challenges, and aspirations--at the center of mathematics teaching and learning. We meet teachers who listen to and learn from their students as they work together to reverse those dehumanizing practices found in traditional mathematics education. With these examples as inspiration, this volume opens a conversation on what mathematics educators can do to enable Latinx, Black, and Indigenous students to build on their strengths and fulfill their promise.

**How to Free Your Inner Mathematician**-Susan D'Agostino 2020-03-26 How to Free Your Inner Mathematician: Notes on Mathematics and Life offers readers guidance in managing the fear, freedom, frustration, and joy that often accompany calls to think mathematically. With practical insight and years of award-winning mathematics teaching experience, D'Agostino offers more than 300 hand-drawn sketches alongside accessible descriptions of fractals, symmetry, fuzzy logic, knot theory, Penrose patterns, infinity, the Twin Prime Conjecture, Arrow's Impossibility Theorem, Fermat's Last Theorem, and other intriguing mathematical topics. Readers are encouraged to embrace change, proceed at their own pace, mix up their routines, resist comparison, have faith, fail more often, look for beauty, exercise their imaginations, and define success for themselves. Mathematics students and enthusiasts will learn advice for fostering courage on their journey regardless of age or mathematical background. How to Free Your Inner Mathematician delivers not only engaging mathematical content but provides reassurance that mathematical success has more to do with curiosity and drive than innate aptitude.

**Shaping Our Selves**-Erik Parens 2014-10-22 For more than two decades, Erik Parens has participated in the debates about using technologies like surgery and pharmacology to shape our selves - debates that have at their core the question, What does it mean for human beings to flourish? Based on his experience, he has written a book to help people who are new to bioethics to understand what such debates actually entail. They entail more than the exchange of impartial reasons. They also entail efforts by critics of and enthusiasts about technologically shaping selves to justify their own ways of being in the world.

**Humor, Laughter and Human Flourishing**-Mordechai Gordon 2013-08-13 This book is a philosophical investigation of the significance of humor and laughter, examining its relation to other human phenomena including truth, nihilism, dreams, friendship, intimacy, aesthetic experience, self-transcendence and education. The author addresses the relative neglect of humor and laughter among philosophers of education with this volume, where the focus is on the significance of humor and laughter for human flourishing. Central questions are threaded through this work: What does the study of humor and laughter bring to philosophy and specifically to philosophy of education? How is humorist thinking different from other modes of human knowing? What might happen if we were to respond to the absurdity of human existence with humor and laughter? What insights can be learned from a philosophical investigation of humor in relationship to other human phenomena such as dreams, friendship, intimacy, aesthetic experience and self-transcendence? And, finally, how can humor and laughter enhance human existence and flourishing? The author presents groundbreaking insights into what can be gained from a study of humor and laughter about human existence in general and flourishing in particular. This work will be of interest to philosophers, especially philosophers of education, as well as to teachers and educators. Its unique blend of philosophical investigation and humorous discourse is both a rigorous and accessible analysis of humor.

**Happiness Explained**-Paul Anand 2016-03 The book offers a novel account of human happiness suitable for the general or popular science reader. Drawing on evidence from psychology and economics, as well as recent thinking in ethics, Happiness Explained addresses two of the most important questions to humankind, namely, what is happiness and how can we take account of this in our everyday lives? The book starts by setting out what is wrong with focussing exclusively on grossnational income as a measure of wellbeing and introduces a novel approach developed by Nobel prize-winner Amartya Sen. It then considers evidence relating to different aspects of wellbeing from a wide range ofeconomics and psychological studies. It also examines issues of fairness and wellbeing, the emergence of policies and practice around the world that seek to account for human wellbeing explicitly, and the principles that underpin wellbeing over the life course.

**Mathematics for Social Justice: Resources for the College Classroom**-Gizem Karaali 2019-07-09 Mathematics for Social Justice offers a collection of resources for mathematics faculty interested in incorporating questions of social justice into their classrooms. The book begins with a series of essays from instructors experienced in integrating social justice themes into their pedagogy; these essays contain political and pedagogical motivations as well as nuts-and-bolts teaching advice. The heart of the book is a collection of fourteen classroom-tested modules featuring ready-to-use activities and investigations for the college mathematics classroom. The mathematical tools and techniques used are relevant to a wide variety of courses including college algebra, math for the liberal arts, calculus, differential equations, discrete mathematics, geometry, financial mathematics, and combinatorics. The social justice themes include human trafficking, income inequality, environmental justice, gerrymandering, voting methods, and access to education. The volume editors are leaders of the national movement to include social justice material into mathematics teaching. Gizem Karaali is Associate Professor of Mathematics at Pomona College. She is one of the founding editors of The Journal of Humanistic Mathematics, and an associate editor for The Mathematical Intelligencer and Numeracy ; she also serves on the editorial board of the MAA's Carus Mathematical Monographs. Lily Khadjavi is Associate Professor of Mathematics at Loyola Marymount University and is a past co-chair of the Infinite Possibilities Conference. She has served on the boards of Building Diversity in Science, the Barbara Jordan-Bayard Rustin Coalition, and the Harvard Gender and Sexuality Caucus.

**Math through the Ages: A Gentle History for Teachers and Others Expanded Second Edition**-William P. Berlinghoff 2020-05-05 `Math through the Ages' is a treasure, one of the best history of math books at its level ever written. Somehow, it manages to stay true to a surprisingly sophisticated story, while respecting the needs of its audience. Its overview of the subject captures most of what one needs to know, and the 30 sketches are small gems of exposition that stimulate further exploration. --Glen van Brummelen, Quest University, President (2012-14) of the Canadian Society for History and Philosophy of Mathematics Where did math come from? Who thought up all those algebra symbols, and why? What is the story behind  $\pi$ ? ... negative numbers? ... the metric system? ... quadratic equations? ... sine and cosine? ... logs? The 30 independent historical sketches in Math through the Ages answer these questions and many others in an informal, easygoing style that is accessible to teachers, students, and anyone who is curious about the history of mathematical ideas. Each sketch includes Questions and Projects to help you learn more about its topic and to see how the main ideas fit into the bigger picture of history. The 30 short stories are preceded by a 58-page bird's-eye overview of the entire panorama of mathematical history, a whirlwind tour of the most important people, events, and trends that shaped the mathematics we know today. ``What to Read Next'' and reading suggestions after each sketch provide starting points for readers who want to learn more. This book is ideal for a broad spectrum of audiences, including students in history of mathematics courses at the late high school or early college level, pre-service and in-service teachers, and anyone who just wants to

know a little more about the origins of mathematics.

**Eudaimonia**-Gareth Dylan Smith 2020-04-23 Eudaimonia: Perspectives for Music Learning asserts the fertile applications of eudaimonia—an Aristotelian concept of human flourishing intended to explain the nature of a life well lived—for work in music learning and teaching in the 21st century. Drawing insights from within and beyond the field of music education, contributors reflect on what the "good life" means in music, highlighting issues at the core of the human experience and the heart of schooling and other educational settings. This pursuit of personal fulfillment through active engagement is considered in relation to music education as well as broader social, political, spiritual, psychological, and environmental contexts. Especially pertinent in today’s complicated and contradictory world, Eudaimonia: Perspectives for Music Learning is a concise compendium on this oft-overlooked concept, providing musicians with an understanding of an ethically-guided and socially-meaningful music-learning paradigm.

**The Eyes of the Heart**-Christine Valters Paintner 2013-03-25 In this first book to explore photography as a spiritual practice from a Christian perspective, Christine Valters Paintner builds on the process of contemplative creativity she introduced online at Abbey of the Arts and in her book The Artist's Rule. She considers how a camera can help readers open "the eyes of the heart." More than a book on photographic technique, Eyes of the Heart is about cultivating photography as a spiritual practice. Adapting the monastic practice of lectio divina (sacred reading) into a form of visio divina (sacred seeing), spiritual director and Benedictine oblate Christine Valters Paintner invites readers to a new way of viewing the world--through the lens of a camera. Paintner guides readers through six themes connecting the medium of photography with the Christian spiritual life. Each theme provides a photographic journey in which the reader does not simply take images, but receives images and learns to see with "the eyes of the heart" (Eph 1:18). Photos by the author are included.

**The Math of Life and Death**-Kit Yates 2021-04-27 "Few of us really appreciate the full power of math--the extent to which its influence is not only in every office and every home, but also in every courtroom and hospital ward. In this ... book, Kit Yates explores the true stories of life-changing events in which the application--or misapplication--of mathematics has played a critical role: patients crippled by faulty genes and entrepreneurs bankrupted by faulty algorithms; innocent victims of miscarriages of justice; and the unwitting victims of software glitches"--Publisher marketing.

**Theological Reflection and the Pursuit of Ideals**-Dr David Jasper 2013-06-28 Contemporary thought is marked by heated debates about the character, purpose and form of religious thinking and its relation to a range of ideals: spiritual, moral, aesthetic, political and ecological, to name the obvious. This book addresses the interrelation between theological thinking and the complex and diverse realms of human ideals. What are the ideals appropriate to our moment in human history, and how do these ideals derive from or relate to theological reflection in our time? In Theological Reflection and the Pursuit of Ideals internationally renowned scholars from a range of disciplines (physics, art, literary studies, ethics, comparative religion, history of ideas, and theology) engage with these crucial questions with the intention of articulating a new and historically appropriate vision of theological reflection and the pursuit of ideals for our global times.

**The Young Karl Marx**-David Leopold 2007-06-28 The Young Karl Marx is an innovative and important study of Marx's early writings. These writings provide the fascinating spectacle of a powerful and imaginative intellect wrestling with complex and significant issues, but they also present formidable interpretative obstacles to modern readers. David Leopold shows how an understanding of their intellectual and cultural context can illuminate the political dimension of these works. An erudite yet accessible discussion of Marx's influences and targets frames the author's critical engagement with Marx's account of the emergence, character, and (future) replacement of the modern state. This combination of historical and analytical approaches results in a sympathetic, but not uncritical, exploration of such fundamental themes as alienation, citizenship, community, anti-semitism, and utopianism. The Young Karl Marx is a scholarly and original work which provides a radical and persuasive reinterpretation of Marx's complex and often misunderstood views of German philosophy, modern politics, and human flourishing.

**Human Flourishing: Volume 16, Part 1**-Ellen Frankel Paul 1999-01-28 Studies human flourishing, its place in moral theory, and the influence of ancient theorists on contemporary philosophers.