



*I n d i s c r e t e*

# Thoughts

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# Indiscrete Thoughts

**Michael Roubach**



## Indiscrete Thoughts:

*Indiscrete Thoughts* Gian-Carlo Rota, 2009-11-03 *Indiscrete Thoughts* gives a glimpse into a world that has seldom been described that of science and technology as seen through the eyes of a mathematician The era covered by this book 1950 to 1990 was surely one of the golden ages of science as well as the American university Cherished myths are debunked along the way as Gian Carlo Rota takes pleasure in portraying warts and all some of the great scientific personalities of the period Stanislaw Ulam who together with Edward Teller signed the patent application for the hydrogen bomb Solomon Lefschetz Chairman in the 50s of the Princeton mathematics department William Feller one of the founders of modern probability theory Jack Schwartz one of the founders of computer science and many others Rota is not afraid of controversy Some readers may even consider these essays indiscreet After the publication of the essay *The Pernicious Influence of Mathematics upon Philosophy* reprinted six times in five languages the author was blacklisted in analytical philosophy circles *Indiscrete Thoughts* should become an instant classic and the subject of debate for decades to come [Gaither's Dictionary of Scientific Quotations](#) Carl C. Gaither, Alma E. Cavazos-Gaither, 2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind's scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither's *Dictionary of Scientific Quotations* Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories **Experiencing Mathematics** Reuben Hersh, 2013-12-24 Part IV About the author An amusing elementary example Annotated research bibliography Curriculum vitae List of articles Index Back Cover [The Unknowable](#) Gregory J. Chaitin, 1999-07-01 This essential companion to Chaitin's highly successful *The Limits of Mathematics* gives a brilliant historical survey of important work on the foundations of mathematics *The Unknowable* is a very readable introduction to Chaitin's ideas and includes software on the author's website that will enable users to interact with the author's proofs Chaitin's new book *The Unknowable* is a welcome addition to his oeuvre In it he manages to bring his amazingly seminal insights to the attention of a much larger audience His work has deserved such treatment for a long time JOHN ALLEN PAULOS AUTHOR OF *ONCE UPON A NUMBER* **Number Theory in Mathematics Education** Rina Zazkis, Stephen R. Campbell, 2012-10-12 This book offers multiple interconnected perspectives on the largely untapped potential of elementary number theory for mathematics education its formal and cognitive nature its relation to arithmetic and algebra its accessibility its utility and intrinsic merits to name just a few Its purpose is to promote explication and critical

dialogue about these issues within the international mathematics education community The studies comprise a variety of pedagogical and research orientations by an international group of researchers that collectively make a compelling case for the relevance and importance of number theory in mathematics education in both pre K 16 settings and mathematics teacher education Topics variously engaged include understanding particular concepts related to numerical structure and number theory elaborating on the historical and psychological relevance of number theory in concept development attaining a smooth transition and extension from pattern recognition to formative principles appreciating the aesthetics of number structure exploring its suitability in terms of making connections leading to aha insights and reaching toward the learner's affective domain reexamining previously constructed knowledge from a novel angle investigating connections between technique and theory utilizing computers and calculators as pedagogical tools and generally illuminating the role number theory concepts could play in developing mathematical knowledge and reasoning in students and teachers Overall the chapters of this book highlight number theory related topics as a stepping stone from arithmetic toward generalization and algebraic formalism and as a means for providing intuitively grounded meanings of numbers variables functions and proofs Number Theory in Mathematics Education Perspectives and Prospects is of interest to researchers teacher educators and students in the field of mathematics education and is well suited as a text for upper level mathematics education courses

*Thinking about Gödel and Turing* Gregory J. Chaitin, 2007 Dr Gregory Chaitin one of the world's leading mathematicians is best known for his discovery of the remarkable number a concrete example of irreducible complexity in pure mathematics which shows that mathematics is infinitely complex In this volume Chaitin discusses the evolution of these ideas tracing them back to Leibniz and Borel as well as Gödel and Turing This book contains 23 non technical papers by Chaitin his favorite tutorial and survey papers including Chaitin's three Scientific American articles These essays summarize a lifetime effort to use the notion of program size complexity or algorithmic information content in order to shed further light on the fundamental work of Gödel and Turing on the limits of mathematical methods both in logic and in computation Chaitin argues here that his information theoretic approach to metamathematics suggests a quasi empirical view of mathematics that emphasizes the similarities rather than the differences between mathematics and physics He also develops his own brand of digital philosophy which views the entire universe as a giant computation and speculates that perhaps everything is discrete software everything is 0's and 1's Chaitin's fundamental mathematical work will be of interest to philosophers concerned with the limits of knowledge and to physicists interested in the nature of complexity

**Algebraic Combinatorics and Computer Science** H. Crapo, D. Senato, 2012-12-06 This book dedicated to the memory of Gian Carlo Rota is the result of a collaborative effort by his friends students and admirers Rota was one of the great thinkers of our times innovator in both mathematics and phenomenology I feel moved yet touched by a sense of sadness in presenting this volume of work despite the fear that I may be unworthy of the task that befalls me Rota both the scientist and the man was marked by a generosity that knew no bounds His ideas

opened wide the horizons of fields of research permitting an astonishing number of students from all over the globe to become enthusiastically involved. The contagious energy with which he demonstrated his tremendous mental capacity always proved fresh and inspiring. Beyond his renown as gifted scientist, what was particularly striking in Gian Carlo Rota was his ability to appreciate the diverse intellectual capacities of those before him and to adapt his communications accordingly. This human sense, complemented by his acute appreciation of the importance of the individual, acted as a catalyst in bringing forth the very best in each one of his students. Whosoever was fortunate enough to enjoy Gian Carlo Rota's longstanding friendship was most enriched by the experience, both mathematically and philosophically, and had occasion to appreciate *son cote de bon vivant*. The book opens with a heartfelt piece by Henry Crapo in which he meticulously pieces together what Gian Carlo Rota's untimely demise has bequeathed to science.

*Phenomenology and Mathematics* Michael Roubach, 2023-12-06. This Element explores the relationship between phenomenology and mathematics. Its focus is the mathematical thought of Edmund Husserl, founder of phenomenology, but other phenomenologists and phenomenologically oriented mathematicians, including Weyl, Becker, Godel, and Rota, are also discussed. After outlining the basic notions of Husserl's phenomenology, the author traces Husserl's journey from his early mathematical studies. Phenomenology's core concepts, such as intention and intuition, each contributed to the emergence of a phenomenological approach to mathematics. This Element examines the phenomenological conceptions of natural number, the continuum, geometry, formal systems, and the applicability of mathematics. It also situates the phenomenological approach in relation to other schools in the philosophy of mathematics: logicism, formalism, intuitionism, Platonism, the French epistemological school, and the philosophy of mathematical practice.

*99 Variations on a Proof* Philip Ordning, 2021-10-19. An exploration of mathematical style through 99 different proofs of the same theorem. This book offers a multifaceted perspective on mathematics by demonstrating 99 different proofs of the same theorem. Each chapter solves an otherwise unremarkable equation in distinct historical, formal, and imaginative styles that range from Medieval Topological and Doggerel to Chromatic, Electrostatic, and Psychedelic. With a rare blend of humor and scholarly aplomb, Philip Ordning weaves these variations into an accessible and wide-ranging narrative on the nature and practice of mathematics. Inspired by the experiments of the Paris-based writing group known as the Oulipo, whose members included Raymond Queneau, Italo Calvino, and Marcel Duchamp, Ordning explores new ways to examine the aesthetic possibilities of mathematical activity. *99 Variations on a Proof* is a mathematical take on Queneau's *Exercises in Style*, a collection of 99 retellings of the same story, and it draws unexpected connections to everything from mysticism and technology to architecture and sign language. Through diagrams, found material, and other imagery, Ordning illustrates the flexibility and creative potential of mathematics despite its reputation for precision and rigor. Readers will gain not only a bird's-eye view of the discipline and its major branches but also new insights into its historical, philosophical, and cultural nuances. Readers, no matter their level of expertise, will discover in these proofs and accompanying commentary surprising

new aspects of the mathematical landscape

**The Making of Mathematics** Carlo Cellucci, 2022-03-07 This book offers an alternative to current philosophy of mathematics heuristic philosophy of mathematics In accordance with the heuristic approach the philosophy of mathematics must concern itself with the making of mathematics and in particular with mathematical discovery In the past century mainstream philosophy of mathematics has claimed that the philosophy of mathematics cannot concern itself with the making of mathematics but only with finished mathematics namely mathematics as presented in published works On this basis mainstream philosophy of mathematics has maintained that mathematics is theorem proving by the axiomatic method This view has turned out to be untenable because of Gödel's incompleteness theorems which have shown that the view that mathematics is theorem proving by the axiomatic method does not account for a large number of basic features of mathematics By using the heuristic approach this book argues that mathematics is not theorem proving by the axiomatic method but is rather problem solving by the analytic method The author argues that this view can account for the main items of the mathematical process those being mathematical objects demonstrations definitions diagrams notations explanations applicability beauty and the role of mathematical knowledge

**Theories of Mathematics Education** Bharath Sriraman, Lyn English, 2009-10-13 Advances in Mathematics Education is a new and innovative book series published by Springer that builds on the success and the rich history of ZDM The International Journal on Mathematics Education formerly known as Zentralblatt für die Mathematik One characteristic of ZDM since its inception in 1969 has been the publication of themed issues that aim to bring the state of the art on central sub domains within mathematics education The published issues include a rich variety of topics and contributions that continue to be of relevance today The newly established monograph series aims to integrate synthesize and extend papers from previously published themed issues of importance today by orienting these issues towards the future state of the art The main idea is to move the field forward with a book series that looks to the future by building on the past by carefully choosing viable ideas that can fruitfully mutate and inspire the next generations Taking inspiration from Henri Poincaré 1854-1912 who said To create consists precisely in not making useless combinations and in making those which are useful and which are only a small minority

**Mathematical Lives** CLAUDIO BARTOCCI, Renato Betti, Angelo Guerraggio, Roberto Lucchetti, 2010-10-01 Steps forward in mathematics often reverberate in other scientific disciplines and give rise to innovative conceptual developments or find surprising technological applications This volume brings to the forefront some of the proponents of the mathematics of the twentieth century who have put at our disposal new and powerful instruments for investigating the reality around us The portraits present people who have impressive charisma and wide ranging cultural interests who are passionate about defending the importance of their own research are sensitive to beauty and attentive to the social and political problems of their times What we have sought to document is mathematics central position in the culture of our day Space has been made not only for the great mathematicians but also for literary texts including contributions by two

apparent interlopers Robert Musil and Raymond Queneau for whom mathematical concepts represented a valuable tool for resolving the struggle between soul and precision      From Combinatorics to Philosophy Ernesto Damiani, Ottavio D'Antona, Vincenzo Marra, Fabrizio Palombi, 2009-07-24 From Combinatorics to Philosophy The Legacy of G C Rota provides an assessment of G C Rota's legacy to current international research issues in mathematics philosophy and computer science This volume includes chapters by leading researchers as well as a number of invited research papers Rota's legacy connects European and Italian research communities to the USA by providing inspiration to several generations of researchers in combinatorics philosophy and computer science From Combinatorics to Philosophy The Legacy of G C Rota is of valuable interest to research institutions and university libraries worldwide This book is also designed for advanced level students in mathematics computer science and philosophy      **Language and the Ineffable** Louis S. Berger, 2011-01-01 The prevailing conception of language is often called the received view Though ubiquitous Louis S Berger demonstrates its flaws and the difficulties it raises for other disciplines such as philosophy and physics In Language and the Ineffable Berger develops an unconventional model of human development ontogenesis A radical and generative feature of the model is the premise that the neonate's world is holistic boundary less unimaginable and impossible to describe in other words ineffable This study unsettles the foundations of sacrosanct beliefs about language and a host of other disciplines in the process      **Doing Mathematics: Convention, Subject, Calculation, Analogy (2nd Edition)** Martin H Krieger, 2015-01-15 Doing Mathematics discusses some ways mathematicians and mathematical physicists do their work and the subject matters they uncover and fashion The conventions they adopt the subject areas they delimit what they can prove and calculate about the physical world and the analogies they discover and employ all depend on the mathematics what will work out and what won't The cases studied include the central limit theorem of statistics the sound of the shape of a drum the connections between algebra and topology and the series of rigorous proofs of the stability of matter The many and varied solutions to the two dimensional Ising model of ferromagnetism make sense as a whole when they are seen in an analogy developed by Richard Dedekind in the 1880s to algebraicize Riemann's function theory by Robert Langlands program in number theory and representation theory and by the analogy between one dimensional quantum mechanics and two dimensional classical statistical mechanics In effect we begin to see an identity in a manifold presentation of profiles as the phenomenologists would say This second edition deepens the particular examples it describe the practical role of mathematical rigor it suggests what might be a mathematician's philosophy of mathematics and it shows how an ugly first proof or derivation embodies essential features only to be appreciated after many subsequent proofs Natural scientists and mathematicians trade physical models and abstract objects remaking them to suit their needs discovering new roles for them as in the recent case of the Painlevé transcendents the Tracy Widom distribution and Toeplitz determinants And mathematics has provided the models and analogies the ordinary language for describing the everyday world the structure of cities or God's infinitude      **Proof**

**and Other Dilemmas** Bonnie Gold, Roger A. Simons, 2008 During the first 75 years of the twentieth century almost all work in the philosophy of mathematics concerned foundational questions In the last quarter of the century philosophers of mathematics began to return to basic questions concerning the philosophy of mathematics such as what is the nature of mathematical knowledge and of mathematical objects and how is mathematics related to science Two new schools of philosophy of mathematics social constructivism and structuralism were added to the four traditional views formalism intuitionism logicism and platonism The advent of the computer led to proofs and the development of mathematics assisted by computer and to questions of the role of the computer in mathematics This book of 16 essays all written specifically for this volume is the first to explore this range of new developments in a language accessible to mathematicians Approximately half the essays were written by mathematicians and consider questions that philosophers are not yet discussing The other half written by philosophers of mathematics summarize the discussion in that community during the last 35 years In each case a connection is made to issues relevant to the teaching of mathematics

*Handbook of the History and Philosophy of Mathematical Practice* Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Otávio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersh University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an



important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes études Scientifiques

**Machine Dreams** Philip Mirowski, 2001-12-03 This was the first cross over book into the history of science written by an historian of economics It shows how history of technology can be integrated with the history of economic ideas The analysis combines Cold War history with the history of postwar economics in America and later elsewhere revealing that the Pax Americana had much to do with abstruse and formal doctrines such as linear programming and game theory It links the literature on cyborg to economics an element missing in literature to date The treatment further calls into question the idea that economics has been immune to postmodern currents arguing that neoclassical economics has participated in the deconstruction of the integral self Finally it argues for an alliance of computational and institutional themes and challenges the widespread impression that there is nothing else besides American neoclassical economic theory left standing after the demise of Marxism

**Anthropology and Beauty** Stephanie Bunn, 2018-01-17 Organised around the theme of beauty this innovative collection offers insight into the development of anthropological thinking on art aesthetics and creativity in recent years The volume incorporates current work on perception and generative processes and seeks to move beyond a purely aesthetic and relativist stance The chapters invite readers to consider how people sense and seek out beauty whether through acts of human creativity and production through sensory experience of sound light or touch or experiencing architecture visiting heritage sites or ancient buildings experiencing the environment through places of outstanding natural beauty or through cooperative action machine engineering or designing for the future

**The Star and the Whole** Fabrizio Palombi, 2011-08-24 The Star and the Whole Gian Carlo Rota on Mathematics and Phenomenology authored by Fabrizio Palombi is the first book to study Rota's philosophical reflection Rota 1932-1999 was a leading figure in contemporary mathematics and an outstanding philosopher inspired by phenomenology who made fundamental contributions to combinatorial analysis and trained several generations of mathematicians in his long career at the Massachusetts Institute of

Technology MIT and the Los Alamos National Laboratory The first chapter of the book reconstructs Rota's cultural biography and examines his philosophical style his criticisms of analytical philosophy and his reflection on Heidegger's thought The second chapter presents a general picture of Rota's re-elaboration of phenomenology examined in the light of the Husserlian notion of *Fundierung* This chapter also illustrates how the star shape becomes a powerful instrument for understanding the properties of Husserl's mereology and the critique of objectivism The third chapter is a theoretical reflection on the nature of mathematical entities and the fourth examines the complex relation of mathematical research with technological applicability and scientific progress The foreword of the text is written by Robert Sokolowski

The Top Books of the Year Indiscrete Thoughts The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Indiscrete Thoughts : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Indiscrete Thoughts : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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### **Indiscrete Thoughts Introduction**

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