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## NICHOLSON SNYDER

*Trigonometry* Springer

In a sense, trigonometry sits at the center of high school mathematics. It originates in the study of geometry when we investigate the ratios of sides in similar right triangles, or when we look at the relationship between a chord of a circle and its arc. It leads to a much deeper study of periodic functions, and of the so-called transcendental functions, which cannot be described using finite algebraic processes. It also has many applications to physics, astronomy, and other branches of science. It is a very old subject. Many of the geometric results that we now state in trigonometric terms were given a purely geometric exposition by Euclid. Ptolemy, an early astronomer, began to go beyond Euclid, using the geometry of the time to construct what we now call tables of values of trigonometric functions. Trigonometry is an important introduction to calculus, where one studies what mathematicians call analytic properties of functions. One of the goals of this book is to prepare you for a course in calculus by directing your attention away from particular values of a function to a study of the function as an object in itself. This way of thinking is useful not just in calculus, but in many mathematical situations. So trigonometry is a part of pre-calculus, and is related to other pre-calculus topics, such as exponential and logarithmic functions, and complex numbers.

### Assessing the Measurement, Correlates, and Well-Being of People with Alexithymia

This brief reviews the literature on alexithymia with a particular focus on the relation between positive well-being and alexithymia. It starts by exploring the definition, history and etiology of the construct. The brief then discusses the importance of research and presents new research which sheds light on why alexithymia is characterized by poor well-being. The research strongly suggests that people who score high in alexithymia are low in aspects of positive well-being such as happiness, life satisfaction, and positive affect, and high in aspects of negative well-being, such as depression and negative affect. Next, the book examines the correlates of alexithymia and the latter's relation with personality and subjective well-being. Although there has been an increased interest in human flourishing, and even though research in positive psychology has included personality, there has been little application of positive psychology to people with deficits in emotional processing including people with alexithymia. This brief fills that gap.

### Investigating Minds, Selves and 21st Century Artefacts

Springer Nature  
New Methods for Measuring and Analyzing Segregation  
*Public Sociology in an Era of Social Media* Springer Science & Business Media

Ethnography is now a fundamental feature of design practice, taught in universities worldwide and practiced widely in commerce. Despite its rise to prominence a great many competing perspectives exist and there are few practical texts to support the development of competence. Doing Design Ethnography elaborates the ethnomethodological perspective on ethnography, a distinctive approach that provides canonical 'studies of work' in and for design. It provides an extensive treatment of the approach, with a particular slant on providing a pedagogical text that will support the development of competence for students, career researchers and design practitioners. It is organised around a complementary series of self-contained chapters, each of which address key features of doing the job of ethnography for purposes of system design. The book will be of broad appeal to students and practitioners in HCI, CSCW and software engineering, providing valuable insights as to how to conduct ethnography and relate it to design.

*Sociology of Interdisciplinarity* Springer Science & Business Media  
*Applied Corporate Finance* fills a gap in the existing resources available to students and professionals needing an academically rigorous, yet practically orientated, source of knowledge about corporate finance. Written by an expert in investment analysis, this textbook leads readers to truly understand the principles behind corporate finance in a real world context from both a firm and investor perspective. The focus of this text is on traditional theory applied to a holistic business case study, offering readers both a quantitative and qualitative perspective on such topics as capital budgeting, time value of money, corporate risk, and capital structure. Each section in the book corresponds to the order in which a business makes key financial decisions—as opposed to level of difficulty—allowing readers to grasp a comprehensive understanding of the corporate financial life cycle.

Directly addressing the area of corporate finance in an applied setting, and featuring numerous case examples and end-of-chapter discussion questions and problems, this textbook will appeal to advanced undergraduates majoring in finance, graduate-level students, as well as professionals in need of a quick refresher on corporate financial policy.

### Digital Extremisms

Springer Nature  
First thorough treatment of multidimensional item response theory Description of methods is supported by numerous practical examples Describes procedures for multidimensional computerized adaptive testing

### Transnational Entanglements

Springer Nature  
This book expands the debate on the future of science and technology at the Curious2018 - Future Insight Conference, held on the occasion of Merck's 350-year anniversary. In the respective chapters, some of the world's top scientists, managers and entrepreneurs explore breakthrough technologies and how they can be applied to make a better world for humanity. Divided into three parts, the book begins with an introduction to the vision of the conference and to the importance of curiosity for innovation, while also exploring the latest scientific developments that are shaping the future of healthcare, medicine, the life and material sciences, digitalization and new ways of working together. In the second part, particular attention is paid to new therapies and diagnostics; here, readers will learn how synthetic biology and chemistry are being used to solve problems that are essential to the future of humanity. The role of in-silico research is also discussed. In the final part of the book, readers will find some thoughts on ethical principles guiding our application of science and technology to create a bright future for humanity. Given its interdisciplinary appeal, the book will inspire curiosity in a wide readership, from scholars and researchers to professionals with an interest in exploring the future of science and technology, solving the problems of today, and paving the way for a better tomorrow. Chapters 1, 2, 3 and 17 are available open access under a Creative Commons Attribution-NonCommercial 4.0 International License via [link.springer.com](http://link.springer.com).

### Hadean Earth

Springer Nature  
The aim of this book is to provide an accessible overview for advanced students, resource professionals such as land managers, and policy makers to acquaint themselves with the established science, management practices and policies that facilitate sequestration and allow for the storage of carbon in forests. The book has value to the reader to better understand: a) carbon science and management of forests and wood products; b) the underlying social mechanisms of deforestation; and c) the policy options in order to formulate a cohesive strategy for implementing forest carbon projects and ultimately reducing emissions from forest land use.

### Botulinum Toxin Therapy

Springer Nature  
In this open access edited volume, international researchers of the field describe and discuss the systematic review method in its application to research in education. Alongside fundamental methodical considerations, reflections and practice examples are included and provide an introduction and overview on systematic reviews in education research.

### Unified Methods for Censored Longitudinal Data and Causality

New Methods for Measuring and Analyzing Segregation  
A comprehensive and accessible overview for language educators, researchers, and students, this book examines the relationship between technological innovation and development in the field of computer-assisted language learning, exploring relevant theories and providing practical evidence about the use of computer games in language learning.

### The Palgrave Handbook of Critical Menstruation Studies

Springer  
This book describes how man-made litter, primarily plastic, has spread into the remotest parts of the oceans and covers all aspects of this pollution problem from the impacts on wildlife and human health to socio-economic and political issues. Marine litter is a prime threat to marine wildlife, habitats and food webs worldwide. The book illustrates how advanced technologies from deep-sea research, microbiology and mathematic modelling as well as classic beach litter counts by volunteers contributed to the broad awareness of marine litter as a problem of global significance. The authors summarise more than five decades of marine litter research, which receives growing attention after the recent discovery of great oceanic garbage patches and the ubiquity of microscopic plastic particles in marine organisms and habitats. In 16 chapters, authors from all over the world have created a universal view on the diverse field of marine litter pollution, the biological impacts, dedicated research activities, and the various national and international legislative efforts to combat this environmental problem. They recommend future

research directions necessary for a comprehensive understanding of this environmental issue and the development of efficient management strategies. This book addresses scientists, and it provides a solid knowledge base for policy makers, NGOs, and the broader public.

### Springer Science & Business Media

This edited book deepens the engagement between 21st century philosophy of mind and the emerging technologies which are transforming our environment. Many new technologies appear to have important implications for the human mind, the nature of our cognition, our sense of identity and even perhaps what we think human beings are. They prompt questions such as: Would an uploaded mind be 'me'? Does our reliance on smart phones, or wearable gadgets enhance or diminish the human mind? and: How does our deep reliance upon ambient artificial intelligence change the shape of the human mind? Readers will discover the best philosophical analysis of what current and near future 21st technology means for the metaphysics of mind. Important questions are addressed on matters relating to the extended mind and the distributed self. Expert authors explore the role that the ubiquitous smart phone might have in creating new forms of self-knowledge. They consider machine consciousness, brain enhancement and smart ambient technology, and what they can tell us about phenomenal consciousness. While ideas of artificial general intelligence, cognitive enhancements and the smart environment are widely commented on, serious analysis of their philosophical implications is only getting started. These contributions from top scholars are therefore very timely, and are of particular relevance to students and scholars of the philosophy of mind, philosophy of technology, computer science and psychology.

### Methodology, Perspectives and Application

Springer Nature  
Cutting across multiple disciplines, this book maps out a new role for the public sociologist in the post-COVID world. It envisions a new kind of public sociology that brings together "the digital" and the "physical" to create public spaces where critical scholarship and active civic engagement can meet in a mutually reinforcing way.

### Systematic Reviews in Educational Research

Springer  
This volume is devoted to the applications of techniques from statistical physics to the characterization and modeling of complex networks. The first two parts of the book concern theory and modeling of networks, the last two parts survey applications to a wide variety of natural and artificial networks. The tutorial reviews that form this book are aimed at students and newcomers to the field, and will also constitute a modern and comprehensive reference for experts. To this aim, all contributions have been carefully peer-reviewed not only for scientific content but also for self-consistency and readability.

### Theory and Practice

Springer  
In studying the past, archaeologists have focused on the material remains of our ancestors. Prehistorians generally have only artifacts to study and rely on the diverse material record for their understanding of past societies and their behavior. Those involved in studying historically documented cultures not only have extensive material remains but also contemporary texts, images, and a range of investigative technologies to enable them to build a broader and more reflexive picture of how past societies, communities, and individuals operated and behaved. Increasingly, historical archaeology refers not to a particular period, place, or a method, but rather an approach that interrogates the tensions between artifacts and texts irrespective of context. In short, historical archaeology provides direct evidence for how humans have shaped the world we live in today. Historical archaeology is a branch of global archaeology that has grown in the last 40 years from its North American base into an increasingly global community of archaeologists each studying their area of the world in a historical context. Where historical archaeology started as part of the study of the post-Columbian societies of the United States and Canada, it has now expanded to interface with the post-medieval archaeologies of Europe and the diverse post-imperial experiences of Africa, Latin America, and Australasia. The 36 essays in the International Handbook of Historical Archaeology have been specially commissioned from the leading researchers in their fields, creating a wide-ranging digest of the increasingly global field of historical archaeology. The volume is divided into two sections, the first reviewing the key themes, issues, and approaches of historical archaeology today, and the second containing a series of case studies charting the development and current state of historical archaeological practice around the world. This key reference work captures the energy and diversity of this global discipline today.

### Disrupting Finance

Springer

The essays collected in *Tattooed Bodies* draw on a range of theoretical paradigms and empirical knowledge to investigate tattoos, tattooing, and our complex relations with marks on skin. Engaging with perspectives in art history, continental philosophy, media studies, psychoanalysis, critical theory, literary studies, biopolitics, and cultural anthropology, the volume reflects the diversity of meanings attributed to tattoos across cultures. Essays explore tattoos and tattooing in Derrida, Deleuze and Guattari, Lacan, Agamben, and Jean-Luc Nancy, while interpreting tattoos in literary works by Melville, Beckett, Kafka, Genet, and Jeff VanderMeer, among others. James Martell is Associate Professor of French at Lyon College, USA. Erik Larsen is Assistant Professor of Medical Humanities at the University of Rochester, USA.

**Anesthesiology** Springer

This book consolidates the latest research on the Hadean Eon - the first 500 million years of Earth history - which has permitted hypotheses of early Earth evolution to be tested, including geophysical models that include the possibility of plate tectonic-like behavior. These new observations challenge the longstanding Hadean paradigm - based on no observational evidence - of a desiccated, lifeless, continent-free wasteland in which surface petrogenesis was largely due to extraterrestrial impacts. The eon was termed "Hadean" to reflect such a hellish environment. That

view began to be challenged in 2001 as results of geochemical analyses of greater than 4 billion year old zircons from Australia emerged. These data were consistent with the zircons forming in a world much more similar to today than long thought and interpreted to indicate that sediment cycling was occurring in the presence of liquid water. This new view leaves open the possibility that life could have emerged shortly after Earth accretion. The epistemic limitations under which the old paradigm persisted are closely examined. The book is principally designed as a monograph but has the potential to be used as a text for advanced graduate courses on early Earth evolution.

**Clinical Companion in Nephrology** Springer Nature

This open access handbook, the first of its kind, provides a comprehensive and carefully curated multidisciplinary and genre-spanning view of the state of the field of Critical Menstruation Studies, opening up new directions in research and advocacy. It is animated by the central question: "what new lines of inquiry are possible when we center our attention on menstrual health and politics across the life course?" The chapters—diverse in content, form and perspective—establish Critical Menstruation Studies as a potent lens that reveals, complicates and unpacks inequalities across biological, social, cultural and historical dimensions. This

handbook is an unmatched resource for researchers, policy makers, practitioners, and activists new to and already familiar with the field as it rapidly develops and expands.

**Location Science** Springer

This book explores the use of the internet by (non-Islamic) extremist groups, drawing together research by scholars across the social sciences and humanities. It offers a broad overview of the best of research in this area, including research contributions that address far-right, (non-Islamic) religious, animal rights, and nationalist violence online, as well as a discussion of the policy and research challenges posed by these unique and disparate groups. It offers an academically rigorous, introductory text that addresses extremism online, making it a valuable resource for students, practitioners and academics seeking to understand the unique characteristics such risks present.

**Questions, Problems and Making Decisions in the Real World** Springer Nature

These techniques include estimation of regression parameters in the familiar (multivariate) generalized linear regression and multiplicative intensity models. They go beyond standard statistical approaches by incorporating all the observed data to allow for informative censoring, to obtain maximal efficiency, and by developing estimators of causal effects.