

# Online Library A Journey Springer Pdf Free Copy

**A Journey Towards Bio-inspired Techniques in Software Engineering** Mar 11 2022 This book covers a range of basic and advanced topics in software engineering. The field has undergone several phases of change and improvement since its invention, and there is significant ongoing research in software development, addressing aspects such as analysis, design, testing and maintenance. Rather than focusing on a single aspect of software engineering, this book provides a systematic overview of recent techniques, including requirement gathering in the form of story points in agile software, and bio-inspired techniques for estimating the effort, cost, and time required for software development. As such it is a valuable resource for new researchers interested in advances in software engineering — particularly in the area of bio-inspired techniques.

**Neuroleadership** Jan 29 2021 This book takes you on a journey through the brain, its function and its impact on leadership. The young business field of neuroleadership is founded on the belief that understanding the brain can give leaders new and powerful insights into human behaviour and how to effectively tap into that knowledge to generate better returns in business. The book approaches the background, history, and major thinkers in the field, but also reassesses the fundamental concept of neuroleadership. The authors look into the fundamental basic needs of human beings,

how they are represented in the neural networks, and how this manifests in motivational drives. The book also focuses explicitly on how impactful organisational tools can be from the viewpoint of the brain. By following this methodology, the reader will be able to use the knowledge of neuroscience at the workplace to better address individuals' brains and hence tap into the full power of brains in business.

The Technological Singularity Apr 24 2023 This volume contains a selection of authoritative essays exploring the central questions raised by the conjectured technological singularity. In informed yet jargon-free contributions written by active research scientists, philosophers and sociologists, it goes beyond philosophical discussion to provide a detailed account of the risks that the singularity poses to human society and, perhaps most usefully, the possible actions that society and technologists can take to manage the journey to any singularity in a way that ensures a positive rather than a negative impact on society. The discussions provide perspectives that cover technological, political and business issues. The aim is to bring clarity and rigor to the debate in a way that will inform and stimulate both experts and interested general readers.

Emigrating Beyond Earth Jul 23 2020 Emigrating Beyond Earth puts space colonization into the context of human evolution. Rather than focusing on the technologies and strategies needed to colonize space, the authors examine the human and societal reasons for space colonization. They make space colonization seem like a natural step by demonstrating that if we continue the human species' 4 million-year-old legacy of adaptation to difficult new environments. The authors present many examples from the history of human expansion into new environments, including two amazing tales of human colonization - the prehistoric settlement of the upper Arctic around 5,000 years ago and the colonization of the Pacific islands around 3,000 years ago - which show that space

exploration is no more about rockets and robots that Arctic exploration was about boating!

Relentless Jul 15 2022 What does forgiveness look like? In *Relentless*, Kellie Springer's memoir, she shares her very human experience on the path to forgiveness for the abuses she suffered as a child. She explores the depth of trauma and the long journey to healing, self-awareness, and self-compassion. Readers will be captivated by her candid story, anxiously accompanying Kellie through her walk of personal growth, and finally celebrating her realization of compassion and forgiveness. In telling her story, Kellie seeks to inspire others to own their stories and the truths that lie within themselves, in order that they may live from a place of authenticity. "I don't know how my story will end but nowhere in my text will it ever read... 'I gave up.'" ~ Anonymous

**How Apollo Flew to the Moon** Feb 27 2021 Stung by the pioneering space successes of the Soviet Union - in particular, Gagarin being the first man in space, the United States gathered the best of its engineers and set itself the goal of reaching the Moon within a decade. In an expanding 2nd edition of *How Apollo Flew to the Moon*, David Woods tells the exciting story of how the resulting Apollo flights were conducted by following a virtual flight to the Moon and its exploration of the surface. From launch to splashdown, he hitches a ride in the incredible spaceships that took men to another world, exploring each step of the journey and detailing the enormous range of disciplines, techniques, and procedures the Apollo crews had to master. While describing the tremendous technological accomplishment involved, he adds the human dimension by calling on the testimony of the people who were there at the time. He provides a wealth of fascinating and accessible material: the role of the powerful Saturn V, the reasoning behind trajectories, the day-to-day concerns of human and spacecraft health between two worlds, the exploration of the lunar surface and the sheer daring involved in traveling to the Moon and the mid-twentieth century. Given the tremendous

success of the original edition of *How Apollo Flew to the Moon*, the second edition will have a new chapter on surface activities, inspired by reader's comment on Amazon.com. There will also be additional detail in the existing chapters to incorporate all the feedback from the original edition, and will include larger illustrations.

*Through Hiker's Eyes - a Journey Along the Appalachian Trail* Aug 16 2022 What happens when an Alabama Boy Scout, a California dreamer, a New England young gun, a Southern princess, and a blue-eyed All-American girl cross paths in the woods and embark on a five-month hike through fourteen states and a colorful patchwork of characters? Welcome to the Appalachian Trail community. Stretching from Georgia to Maine, the Appalachian Trail sets the backdrop for this fast-paced adventure where danger, hijinks, and fellowship challenge the limits of expectations and redefines lives.

**A Journey Through Representation Theory** May 13 2022 This text covers a variety of topics in representation theory and is intended for graduate students and more advanced researchers who are interested in the field. The book begins with classical representation theory of finite groups over complex numbers and ends with results on representation theory of quivers. The text includes in particular infinite-dimensional unitary representations for abelian groups, Heisenberg groups and  $SL(2)$ , and representation theory of finite-dimensional algebras. The last chapter is devoted to some applications of quivers, including Harish-Chandra modules for  $SL(2)$ . Ample examples are provided and some are revisited with a different approach when new methods are introduced, leading to deeper results. Exercises are spread throughout each chapter. Prerequisites include an advanced course in linear algebra that covers Jordan normal forms and tensor products as well as basic results on groups and rings.

*A Journey Through Discrete Mathematics* Oct 26 2020 This collection of high-quality articles in the field of combinatorics, geometry, algebraic topology and theoretical computer science is a tribute to Jiří Matoušek, who passed away prematurely in March 2015. It is a collaborative effort by his colleagues and friends, who have paid particular attention to clarity of exposition – something Jirka would have approved of. The original research articles, surveys and expository articles, written by leading experts in their respective fields, map Jiří Matoušek's numerous areas of mathematical interest.

Relativity: A Journey Through Warped Space and Time Aug 28 2023 This primer brilliantly exposes concepts related to special and general relativity for the absolute beginner. It can be used either as an introduction to the subject at a high school level or as a useful compass for undergraduates who want to move the first steps towards Einstein's theories. The book is enhanced throughout with many useful exercises and beautiful illustrations to aid understanding. The topics covered include: Lorentz transformations, length contraction and time dilation, the twin paradox (and other paradoxes), Minkowski spacetime, the Einstein equivalence principle, curvature of space and spacetime, geodesics, parallel transport, Einstein's equations of general relativity, black holes, wormholes, cosmology, gravitational waves, time machines, and much more.

**Tuff Juice** Sep 05 2021 Two-time All-Star and thirteen-year NBA veteran Caron Butler has an impressive basketball record. He was Big East Co-Player of the Year at UConn, the 10th overall pick of the 2002 NBA Draft and a key player for the Dallas Mavericks in their championship-winning season in 2011. But before Butler had a chance to prove himself on the court, he spent his time trying to prove himself on the streets, as a gang member and drug dealer in his hometown of Racine, Wisconsin. He saw friends gunned down in the bloody street wars near his home, was arrested

nearly 15 times and wound up behind bars and in solitary confinement before his 15th birthday. Tuff Juice shares Caron Butler's extraordinary journey from his delinquent youth in the streets of Racine to his role as an accomplished pro basketball player, dedicated husband and father, active philanthropist and burgeoning businessman. Along the way, the book explores the incredible impact his single mother's unconditional love and his college coach's unwavering support had on him, and what drives him to be so successful in basketball and in life. Like *The Blind Side*, it's a gripping narrative filled with hubris, dangerous obstacles and heartwarming moments that transcend sports and speak to perseverance, hope and the triumph of the human spirit.

**Neuroleadership** Sep 17 2022 This book takes you on a journey through the brain, its function and its impact on leadership. The young business field of neuroleadership is founded on the belief that understanding the brain can give leaders new and powerful insights into human behaviour and how to effectively tap into that knowledge to generate better returns in business. The book approaches the background, history, and major thinkers in the field, but also reassesses the fundamental concept of neuroleadership. The authors look into the fundamental basic needs of human beings, how they are represented in the neural networks, and how this manifests in motivational drives. The book also focuses explicitly on how impactful organisational tools can be from the viewpoint of the brain. By following this methodology, the reader will be able to use the knowledge of neuroscience at the workplace to better address individuals' brains and hence tap into the full power of brains in business.

Frank Springer and New Mexico Jun 21 2020 The country Frank Springer rode into in 1873 was one of immense beauty and abundant resources - grass and timber, wild game, precious metals, and a vast bed of commercial-grade coal. It was also a stage upon which dramatic and sometimes violent

events played out. A lawyer and newspaperman for the Maxwell Land Grant company and a foe of the speculators known as "the Santa Fe Ring," Springer found himself in the middle of the Colfax County War. A man of many sides, he typified the Gilded Age entrepreneurs who transformed the territorial American Southwest. As president of the Maxwell Land Grant company, Springer led in the development of mining, logging, ranching, and irrigation enterprises. His Supreme Court victory establishing title to the 1.7 million acre Maxwell grant earned him a reputation as a brilliant attorney.

*Biological Antenna to the Humanoid Bot* Apr 19 2020 The book outlines a pathway to the development of fusion of electromagnetic resonance and artificial intelligence which will dominate the world of communication engineering. Electromagnetic resonance is fundamental to all biomaterials. The authors explore the peculiarities of this typical resonance behaviour in the literatures and provide the key points where the research should direct. Biological antennas are inspiring designing of several electromagnetic devices. From biomimetic engineering to humanoid bots a revolution is undergoing. Authors include entire development in the form of a book along with their contribution to this field.

**Springer's Journey** Jul 27 2023 A touching children's book about an orca whale who's mother was killed and his journey back to his pod. Based on a true story in the Puget Sound

**Cognition and the Creative Machine** May 01 2021 How would you assemble a machine that can be creative, what would its cogs be? Starting from how humans do creative problem solving, the author has developed a framework to explore whether a diverse set of creative problem-solving tasks can be solved computationally using a unified set of principles. In this book she describes the implementation of related prototype AI systems, and the computational and empirical experiments

conducted. The book will be of interest to researchers, graduate students, and laypeople engaged with ideas in artificial intelligence, cognitive science, and creativity.

**Exploring Resilience** May 21 2020 Resilience has become an important topic on the safety research agenda and in organizational practice. Most empirical work on resilience has been descriptive, identifying characteristics of work and organizing activity which allow organizations to cope with unexpected situations. Fewer studies have developed testable models and theories that can be used to support interventions aiming to increase resilience and improve safety. In addition, the absent integration of different system levels from individuals, teams, organizations, regulatory bodies, and policy level in theory and practice imply that mechanisms through which resilience is linked across complex systems are not yet well understood. Scientific efforts have been made to develop constructs and models that present relationships; however, these cannot be characterized as sufficient for theory building. There is a need for taking a broader look at resilience practices as a foundation for developing a theoretical framework that can help improve safety in complex systems. This book does not advocate for one definition or one field of research when talking about resilience; it does not assume that the use of resilience concepts is necessarily positive for safety. We encourage a broad approach, seeking inspiration across different scientific and practical domains for the purpose of further developing resilience at a theoretical and an operational level of relevance for different high-risk industries. The aim of the book is twofold: 1. To explore different approaches for operationalization of resilience across scientific disciplines and system levels. 2. To create a theoretical foundation for a resilience framework across scientific disciplines and system levels. By presenting chapters from leading international authors representing different research disciplines and practical fields we develop suggestions and inspiration for the research community and

practitioners in high-risk industries. This book is Open Access under a CC-BY licence.; Explores different approaches for operationalization of resilience across scientific disciplines and system levels Creates a theoretical foundation for a resilience framework across scientific disciplines and system levels Develops suggestions and inspiration for the research community and practitioners in high-risk industries Presents chapters from leading international authors representing different research disciplines and practical fields This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

**A Journey in Mathematics Education Research** Mar 23 2023 Our objective is to publish a book that lays out the theoretical constructs and research methodologies within mathematics education that have been developed by Paul Cobb and explains the process of their development. We propose to do so by including papers in which Cobb introduced new theoretical perspectives and methodologies into the literature, each preceded by a substantive accompanying introductory paper that explains the motivation/rationale for developing the new perspectives and/or methodologies and the processes through which they were developed, and Cobb's own retrospective comments. In this way the book provides the reader with heretofore unpublished material that lays out in considerable detail the issues and problems that Cobb has confronted in his work, that, from his viewpoint, required theoretical and methodological shifts/advances and provides insight into how he has achieved the shifts/advances. The result will be a volume that, in addition to explaining Cobb's contributions to the field of mathematics education, also provides the reader with insight into what is involved in developing an aggressive and evolving research program. When Cobb confronts problems and issues in his work that cannot be addressed using his existing theories and

frameworks, he looks to other fields for theoretical inspiration. A critical feature of Cobb's work is that in doing so, he consciously appropriates and adapts ideas from these other fields to the purpose of supporting processes of learning and teaching mathematics; He does not simply accept the goals or motives of those fields. As a result, Cobb reconceptualizes and reframes issues and concepts so that they result in new ways of investigating, exploring, and explaining phenomena that he encounters in the practical dimensions of his work, which include working in classrooms, with teachers, and with school systems. The effect is that the field of mathematics education is altered. Other researchers have found his "new ways of looking" useful to them. And they, in turn, adapt these ideas for their own use. The complexity of many of the ideas that Cobb has introduced into the field of mathematics education can lead to a multiplicity of interpretations by practitioners and by other researchers, based on their own experiential backgrounds. Therefore, by detailing the development of Cobb's work, including the tensions involved in coming to grips with and reconciling apparently contrasting perspectives, the book will shed additional light on the processes of reconceptualization and thus help the reader to understand the reasons, mechanisms, and outcomes of researchers' constant pursuit of new insights.

### **Yoga and Multiple Sclerosis: A Journey to Health and Healing** Apr 12 2022

*Climate, Planetary and Evolutionary Sciences* Aug 04 2021 This book presents the result of an innovative challenge, to create a systematic literature overview driven by machine-generated content. Questions and related keywords were prepared for the machine to query, discover, collate and structure by Artificial Intelligence (AI) clustering. The AI-based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex, interdisciplinary and multidisciplinary, for example, climate, planetary and evolution sciences. Springer Nature has

published much on these topics in its journals over the years, so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful. The automatically generated literature summaries in this book are intended as a springboard to further discoverability. They are particularly useful to readers with limited time, looking to learn more about the subject quickly and especially if they are new to the topics. Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey, from the undergraduate student exploring interdisciplinary content, to Master- or PhD-thesis developing research questions, to the practitioner seeking support materials, this book can serve as an inspiration, to name a few examples. It is important to us as a publisher to make the advances in technology easily accessible to our authors and find new ways of AI-based author services that allow human-machine interaction to generate readable, usable, collated, research content.

*Journey to Ethnographic Research* Nov 19 2022 This book describes a researcher's journey to carry out an ethnographic study. It serves as a tool to spread the use of ethnographic research, and to clarify the difficulties, challenges, solutions, and advantages ethnographic researchers encounter. The book describes how the various stops along the way allowed investigation of the research area from a variety of viewpoints, in order to fulfil diverse roles, and to present the research findings in a range of voices: the voice of the teacher educator, the voice of the faculty member, the voice of the ethnographic researcher, and the voice of the student. These viewpoints allowed for natural movement between the data that were gathered and the research information that was furnished. Using the voice of each role to present the issue allows one to examine it from a unique perspective and to get a broad and deep picture of the research population, process and results. Such a multi-dimensional perspective enables the presentation of a whole; emphasizing experiences, perceptions,

values, world views, rules and regulations, culture and life style, interpersonal and intrapersonal relations.

The Amazing Journey of Reason Jun 26 2023 This Open Access book explores questions such as why and how did the first biological cells appear? And then complex organisms, brains, societies and -now- connected human societies? Physicists have good models for describing the evolution of the universe since the Big Bang, but can we apply the same concepts to the evolution of aggregated matter -living matter included? The Amazing Journey analyzes the latest results in chemistry, biology, neuroscience, anthropology and sociology under the light of the evolution of intelligence, seen as the ability of processing information. The main strength of this book is using just two concepts used in physics -information and energy- to explain: The emergence and evolution of life: procaryotes, eukaryotes and complex organisms The emergence and evolution of the brain The emergence and evolution of societies (human and not) Possible evolution of our "internet society" and the role that Artificial Intelligence is playing

**Many Worlds, One Life** Mar 31 2021 In this engaging, insightful, and inspiring narrative, Hermann Simon, the world-renowned management thinker, consultant, pricing expert, entrepreneur, and leading authority on the "hidden champions" business model, highlights the influences on his remarkable journey from humble origins on a German farm to advising and sharing the stage with global leaders in industry, academia, and politics. Born in 1947 in the rural Eifel region of Western Germany, Simon's coming of age parallels that of a country struggling to come to terms with the legacy of World War II and reinvent itself as a new world power. His colorful anecdotes of a youth spent in an agricultural community that in many ways operated as it had since the Middle Ages, reflect the establishment of core values, such as trust, focus, quality, and commitment that served as

an anchor against the accelerating pace of technological, economic, political, social, and cultural change in the subsequent decades. Simon takes readers on a journey through time and space, as his—and our—world transformed from isolated to connected, local to global, revealing lessons learned from the extraordinary people (from Peter Drucker to Henry Kissinger) and places he has encountered along the way, through a career that has evolved from research and education to management consulting to leadership and strategy development on a broad scale. His particular interest in the *Mittelstand*, or “hidden champions,” the small and medium-sized companies that exemplify the German business philosophy and served as the engine of its economic revival, becomes a powerful metaphor of his own experiences in blazing new trails while staying true to one’s roots. For anyone familiar with Simon’s work and contributions, *Many Worlds, One Life* reveals unique insights into the man himself and the origins of his ideas on successful leadership and business strategy. But more generally, readers in any field or discipline will recognize how their own stories reflect their ties to the past, their accomplishments in an increasingly complex environment, and, ultimately, their roads to the stars. “Hermann Simon is one of the very few people who combine a truly global mindset with strong local roots. This rare combination makes him a superb bridge-builder at a time of increasing friction in our global trading system. World-renowned management scholar, successful entrepreneur, engaged citizen - this book tells his life’s amazing story in a compelling way.” U. Mark Schneider, CEO, Nestlé “From the moment I met Hermann Simon, through each successive encounter, I have enjoyed increasing returns which are rare in most relationships. Hermann, please continue to open further fields of inquiry in business theory and practice, always with an eye to aligning profit, high purpose, and passion.” Philip Kotler, Professor Emeritus of Marketing, Kellogg School of Management, Northwestern University “Among the

politicians, officials, scholars, and entrepreneurs that Hermann Simon has close acquaintance with, it is a great honor that I am writing a letter of recommendation for this book and Dr. Simon. As a worldly renowned business manager and scholar, his wise words have always inspired and awakened business leaders (and engineers) like me. I bought the book and finished it on the spot before I left the bookstore. This book is about his life rather than his studies. This book also proves that he is a good essayist as much as he is a scholar. As you navigate into his youth in a German farmhouse, you will notice that he has always captured the details of daily life and social surroundings. It is the encounter of such details and awakening of his senses that have led him to become the pride of modern Europe's business management studies. My favorite part in his book is the chapter, 'The School of Life'. He has listed the things he has learned throughout his life and said they are 'subjective and incomplete.' As I read through his book, it felt as if I were having a cup of tea with him over family, future, health, management, leadership, time management, and other lifetime subjects. His value and love for humanity is truly special. In this book, he acknowledges that his life is divided in two: one from his Eifel village and one from the globalized world. The division of the old and the present, or the division of time and space, which usually starts from village and ends in a city, was unavoidable to anyone our age who has gone through rapid urbanization and industrialization. Such sense of separation, however, does not always lead to enlightenment. The enlightenment that he is sharing with us is the fruit of his lifetime effort. When you read his stories from his childhood to recent research and studies, you will learn the never-changing truth that 'Great discernment is cultivated rather than is born.' I also think this book will be a milestone for the younger generations who still have more road to travel." Dr. Chang Gyu Hwang, former CEO, Samsung Electronics and KT Korea Telecom "In his autobiography, Professor Hermann Simon



Countdown to a Moon Launch Jan 21 2023 Thousands of workers labored at Kennedy Space Center around the clock, seven days a week, for half a year to prepare a mission for the liftoff of Apollo 11. This is the story of what went on during those hectic six months. Countdown to a Moon Launch provides an in-depth look at the carefully choreographed workflow for an Apollo mission at KSC. Using the Apollo 11 mission as an example, readers will learn what went on day by day to transform partially completed stages and crates of parts into a ready-to-fly Saturn V. Firsthand accounts of launch pad accidents, near misses, suspected sabotage, and last-minute changes to hardware are told by more than 70 NASA employees and its contractors. A companion to Rocket Ranch, it includes many diagrams and photographs, some never before published, to illustrate all aspects of the process. NASA's groundbreaking use of computers for testing and advanced management techniques are also covered in detail. This book will demystify the question of how NASA could build and launch Apollo missions using 1960s technology. You'll discover that there was no magic involved - just an abundance of discipline, willpower, and creativity.

**Rocket Ranch** Nov 26 2020 Jonathan Ward takes the reader deep into the facilities at Kennedy Space Center to describe NASA's first computer systems used for spacecraft and rocket checkout and explain how tests and launches proceeded. Descriptions of early operations include a harrowing account of the heroic efforts of pad workers during the Apollo 1 fire. A companion to the author's book Countdown to a Moon Launch: Preparing Apollo for Its Historic Journey, this explores every facet of the facilities that served as the base for the Apollo/Saturn missions. Hundreds of illustrations complement the firsthand accounts of more than 70 Apollo program managers and engineers. The era of the Apollo/Saturn missions was perhaps the most exciting period in American space exploration history. Cape Canaveral and Kennedy Space Center were buzzing with activity.

Thousands of workers came to town to build the facilities and launch the missions needed to put an American on the Moon before the end of the decade. Work at KSC involved much more than just launching rockets. It was a place like none other on Earth. Technicians performed intricate operations, and hazards abounded everywhere, including lightning, fire, highly-toxic fuels, snakes, heat, explosives, LOX spills, and even plutonium. The reward for months of 7-day workweeks under intense pressure was witnessing a Saturn V at liftoff. For anyone who ever wished they had worked at Kennedy Space Center during the Apollo era, this book is the next best thing. The only thing missing is the smell of rocket fuel in the morning.

**A Mathematical Journey to Quantum Mechanics** Sep 24 2020 This book provides an itinerary to quantum mechanics taking into account the basic mathematics to formulate it. Specifically, it features the main experiments and postulates of quantum mechanics pointing out their mathematical prominent aspects showing how physical concepts and mathematical tools are deeply intertwined. The material covers topics such as analytic mechanics in Newtonian, Lagrangian, and Hamiltonian formulations, theory of light as formulated in special relativity, and then why quantum mechanics is necessary to explain experiments like the double-split, atomic spectra, and photoelectric effect. The Schrödinger equation and its solutions are developed in detail. It is pointed out that, starting from the concept of the harmonic oscillator, it is possible to develop advanced quantum mechanics. Furthermore, the mathematics behind the Heisenberg uncertainty principle is constructed towards advanced quantum mechanical principles. Relativistic quantum mechanics is finally considered. The book is devoted to undergraduate students from University courses of Physics, Mathematics, Chemistry, and Engineering. It consists of 50 self-contained lectures, and any statement and theorem are demonstrated in detail. It is the companion book of "A Mathematical

Journey to Relativity", by the same Authors, published by Springer in 2020.

Survival Skills for Thesis and Dissertation Candidates Aug 24 2020 This is a must-have preparation and reference guide for students embarking on the challenging journey of completing a thesis or dissertation. The authors, who are both "students of thesis and dissertation travel," combine their expertise and insights to offer wise travel guidance designed to enhance both the success and satisfaction of this likely once-in-a-lifetime journey. The various chapters provide a realistic preview of how to prepare for and how to complete each stage of this travel journey successfully. Individual chapters on each of the major tasks each serve as an important reference for students to review as they progress, thus providing a guide which will be consulted many times throughout their program. The book provides advice on the most common aspects of the thesis or dissertation process, and it is written in a user-friendly manner designed to engage students and to enhance their comfort level as they journey through their candidacy. The importance of each task in the thesis or dissertation journey is addressed, along with its role in contributing to a successful outcome, and is accompanied by advice and suggestions from previous travellers. The challenges inherent in all stages of the journey are examined, along with proactive strategies for avoiding potential "bumps in the road." You will not want to depart on this monumental travel adventure without this valuable survival guide!

**A Journey Through The Realm of Numbers** Feb 22 2023 This book takes the reader on a journey from familiar high school mathematics to undergraduate algebra and number theory. The journey starts with the basic idea that new number systems arise from solving different equations, leading to (abstract) algebra. Along this journey, the reader will be exposed to important ideas of mathematics, and will learn a little about how mathematics is really done. Starting at an elementary level, the

book gradually eases the reader into the complexities of higher mathematics; in particular, the formal structure of mathematical writing (definitions, theorems and proofs) is introduced in simple terms. The book covers a range of topics, from the very foundations (numbers, set theory) to basic abstract algebra (groups, rings, fields), driven throughout by the need to understand concrete equations and problems, such as determining which numbers are sums of squares. Some topics usually reserved for a more advanced audience, such as Eisenstein integers or quadratic reciprocity, are lucidly presented in an accessible way. The book also introduces the reader to open source software for computations, to enhance understanding of the material and nurture basic programming skills. For the more adventurous, a number of Outlooks included in the text offer a glimpse of possible mathematical excursions. This book supports readers in transition from high school to university mathematics, and will also benefit university students keen to explore the beginnings of algebraic number theory. It can be read either on its own or as a supporting text for first courses in algebra or number theory, and can also be used for a topics course on Diophantine equations.

**Digital Enterprise Design & Management** Dec 08 2021 This book contains all refereed papers that were accepted to the second edition of the « Digital Enterprise Design & Management » (DED&M 2014) international conference that took place in Paris (France) from February 4 to February 5, 2014. These proceedings cover the most recent trends in the emerging field of Digital Enterprise, both from an academic and a professional perspective. A special focus is put on digital uses, digital strategies, digital infrastructures and digital governance from an Enterprise Architecture point of view. The DED&M 2014 conference is organized under the guidance of the Center of Excellence on Systems Architecture, Management, Economy and Strategy and benefits

from the supports of both the Orange - Ecole Polytechnique - Télécom ParisTech “Innovation and Regulation” Chair and the Dassault Aviation - DCNS - DGA - Thales - Ecole Polytechnique - ENSTA ParisTech - Télécom ParisTech “Complex Systems Engineering” Chair.

**The Hex Witch of Seldom** Nov 07 2021 This contemporary fantasy by award-winning author Nancy Springer sweeps readers along on a girl’s journey of enlightenment and transformation Raised in the Allegheny Mountains of Pennsylvania by her grandpap, Bobbi Lee Yandro has been seeing things that aren’t there for years. Afraid she’s going “all the way crazy” like her institutionalized mother, she receives an unexpected gift for her almost-sixteenth birthday: a box of her dead father’s journals. Wright Yandro was killed in Vietnam when Bobbi was a baby, but the poems he left behind stir something inside her, awakening visions of wild horses. When her grandfather buys her a black mustang with eyes of blue fire, she instinctively knows its name is Shane. On the day the vet arrives to castrate Shane, Bobbi helps the horse escape. Soon she and Shane are fugitives on a journey that takes Bobbi far from Canadawa County to a village deep in the mountains. Here she meets Hazel Fenstermacher, also known as the Hex Witch of Seldom. Hazel introduces Bobbi to the Twelve of the Hidden Circle, who include a king, a sorceress, a poet, a trickster, and a dark hero. But one of them is out to steal Shane’s soul, for he is no ordinary horse. As Bobbi uncovers the secrets of the Circle, she must employ her special gifts to save Shane and shape her own future.

**From Big Data to Smart Data** Dec 20 2022 A pragmatic approach to Big Data by taking the reader on a journey between Big Data (what it is) and the Smart Data (what it is for). Today’s decision making can be reached via information (related to the data), knowledge (related to people and processes), and timing (the capacity to decide, act and react at the right time). The huge increase in

volume of data traffic, and its format (unstructured data such as blogs, logs, and video) generated by the “digitalization” of our world modifies radically our relationship to the space (in motion) and time, dimension and by capillarity, the enterprise vision of performance monitoring and optimization.

**The A-Z of the PhD Trajectory** Oct 18 2022 This textbook is a guide to success during the PhD trajectory. The first part of this book takes the reader through all steps of the PhD trajectory, and the second part contains a unique glossary of terms and explanation relevant for PhD candidates. Written in the accessible language of the PhD Talk blogs, the book contains a great deal of practical advice for carrying out research, and presenting one’s work. It includes tips and advice from current and former PhD candidates, thus representing a broad range of opinions. The book includes exercises that help PhD candidates get their work kick-started. It covers all steps of a doctoral journey in STEM: getting started in a program, planning the work, the literature review, the research question, experimental work, writing, presenting, online tools, presenting at one’s first conference, writing the first journal paper, writing and defending the thesis, and the career after the PhD. Since a PhD trajectory is a deeply personal journey, this book suggests methods PhD candidates can try out, and teaches them how to figure out for themselves which proposed methods work for them, and how to find their own way of doing things.

**Beyond Meaning: A Journey Across Language, Perception and Experience** Dec 28 2020 Natural languages – idioms such as English and Cantonese, Zulu and Amharic, Basque and Nicaraguan Sign Language – allow their speakers to convey meaning and transmit meaning to one another. But what is meaning exactly? What is this thing that words convey and speakers communicate? Few questions are as elusive as this. Yet, few features are as essential to who we are and what we do as human beings as the capacity to convey meaning through language. In this book,

Gaetano Fiorin and Denis Delfitto disclose a notion of linguistic meaning that is structured around three distinct, yet interconnected dimensions: a linguistic dimension, relating meaning to the linguistic forms that convey it; a material dimension, relating meaning to the material and social conditions of its environment; and a psychological dimension, relating meaning to the cognitive lives of its users. By paying special attention to the puzzle surrounding first-person reference – the way speakers exploit language to refer to themselves – and by capitalizing on a number of recent findings in the cognitive sciences, Fiorin and Delfitto develop the original hypothesis that meaningful language shares the same underlying logical and metaphysical structure of sense perception, effectively acting as a system of classification and discrimination at the interface between cognitive agents and their ecologies.

**Foothold in the Heavens** Oct 06 2021 Foothold in the Heavens, the second volume in the A History of Human Space Exploration series, focuses upon the 1970s, the decade in which humanity established real, longterm foothold in the heavens with the construction and operation of the first space stations. It marked a transitional phase between the heady, race-to-the-Moon days of the Sixties and efforts to make space travel more economical, more frequent and more 'routine.' Space exploration in the Seventies, although dominated by Soviet achievement, saw the first efforts of mankind to really 'live' and work in space, producing results of direct benefit to humans on Earth. The emphasis changed from the gung-ho, 'strap-it-on-and-go' pioneers of the Sixties to the more practical exploitation of space for science, medicine, and technology. This book focuses on each mission launched between April 1971 and April 1981: from the launch of the world's first space station to the end of operations of Salyut 6, and from the expanded, lengthy exploration of the Moon on Apollo 15 to the first flight of the Shuttle.

*Data Journeys in the Sciences* May 25 2023 This groundbreaking, open access volume analyses and compares data practices across several fields through the analysis of specific cases of data journeys. It brings together leading scholars in the philosophy, history and social studies of science to achieve two goals: tracking the travel of data across different spaces, times and domains of research practice; and documenting how such journeys affect the use of data as evidence and the knowledge being produced. The volume captures the opportunities, challenges and concerns involved in making data move from the sites in which they are originally produced to sites where they can be integrated with other data, analysed and re-used for a variety of purposes. The in-depth study of data journeys provides the necessary ground to examine disciplinary, geographical and historical differences and similarities in data management, processing and interpretation, thus identifying the key conditions of possibility for the widespread data sharing associated with Big and Open Data. The chapters are ordered in sections that broadly correspond to different stages of the journeys of data, from their generation to the legitimisation of their use for specific purposes. Additionally, the preface to the volume provides a variety of alternative “roadmaps” aimed to serve the different interests and entry points of readers; and the introduction provides a substantive overview of what data journeys can teach about the methods and epistemology of research.

Spring Time Jan 09 2022

**Scientific Journeys** Jun 14 2022 This collection of essays traces a scientific journey bookmarked by remarkable mentors and milestones of science. It provides fascinating reading for everyone interested in the history, public appreciation, and value of science, as well as giving first-hand accounts of many key events and prominent figures. The author was one of the “sputnik kids” growing up in the US at the start of the space age. He built a working laser just two years after they

were first invented, an experience that convinced him to become a physicist. During his 50-year career in physics, many personalities and notable events in science and technology helped to form his view of how science contributes to the modern world, including his conviction that the impact of science can be most effective when introduced within the context of the humanities - especially history, literature and the arts. From the Foreword by former U.S. Congressman, Rush D. Holt: In this volume, we have the wide-ranging thoughts and observations of Fred Dylla, an accomplished physicist with an engineer's fascination for gadgets, a historian's long perspective, an artist's aesthetic eye, and a teacher's passion for sharing ideas. Throughout his varied career [...] his curiosity has been his foremost characteristic and his ability to see the connection between apparently disparate things his greatest skill. [...] Here he examines the roots and growth of innovation in examples from Bell Laboratories, Edison Electric Light Company, and cubist painter Georges Braque. He considers the essential place of publishing in science, that epochal intellectual technique for learning how the world works. He shows the human enrichment and practical benefits that derive from wise investments in scientific research, as well as the waste resulting from a failure to embrace appropriate technologies.

**Relativity: A Journey Through Warped Space and Time** Jul 03 2021 This primer brilliantly exposes concepts related to special and general relativity for the absolute beginner. It can be used either as an introduction to the subject at a high school level or as a useful compass for undergraduates who want to move the first steps towards Einstein's theories. The book is enhanced throughout with many useful exercises and beautiful illustrations to aid understanding. The topics covered include: Lorentz transformations, length contraction and time dilation, the twin paradox (and other paradoxes), Minkowski spacetime, the Einstein equivalence principle, curvature of space

and spacetime, geodesics, parallel transport, Einstein's equations of general relativity, black holes, wormholes, cosmology, gravitational waves, time machines, and much more.

**Gravity, Strings and Particles** Feb 10 2022 New fundamental forces of Nature? New forms of "dark" energy? Signals from epochs preceding the Big Bang? Is our space-time unique? Only a joint study of the three topics examined in this book - gravity, strings and particles - may provide answers to these questions. Such a study may also provide the key to solving one of the most fascinating mysteries of modern science, namely: Besides time and the three spatial dimensions, how many other dimensions exist in our universe? The book is primarily addressed to readers who do not necessarily have a specific background in physics but are nevertheless interested in discovering the originality and the possible implications of some of the amazing ideas in modern theoretical physics. The emphasis is on conveying ideas rather than explaining formulas, focusing not on what is known but -- mainly -- on what is still unknown. Many parts of the book are devoted to fundamental theoretical models and results which are potentially highly relevant for a deeper understanding of Nature, but are still waiting to be confirmed (or disproved) by experiments. From this point of view, the material of this book may also be of interest to professional physicists, whether or not they work in the field of fundamental interactions.

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