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A compelling nonfiction picture book about the remarkable rescue of an orphaned orca calf, Springer (A73), whose story captured the hearts of whale lovers throughout the Pacific Northwest. In 2002, a killer whale calf was discovered swimming alone in Puget Sound. This picture book follows the amazing true story of her identification as a member of the A4 pod, a family of Northern Resident orcas living off the coast of British Columbia, and the team of scientists who worked together against all odds to save her from starvation and reunite her with her family. The challenges of capturing Springer, transporting her north from Puget Sound to Canadian waters, and coordinating her release to facilitate a hopeful acceptance back into her family are brought to life in beautiful illustrations that will appeal to readers of all ages. This is a hopeful and celebratory conservation story with a happy ending: Springer gave birth to her first calf, Spirit, in 2013, and a second calf, Storm, in 2017. In addition to the narrative, there are 5 pages of illustrated back matter that go deeper into Springer's story, and include her family tree, a map of her rescue journey, as well as more about how orcas are at risk and what we can do to help. 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.

Hepatitis C is a liver disease caused by the hepatitis C virus (HCV) and infects approximately 75 million individuals worldwide. It is also one of the major causes of liver cancer and liver transplants. The elucidation of the HCV genome, and the development of a whole cell system to study the virus spurred the search for novel direct acting antiviral drugs to cure this disease. This global effort culminated in the development of direct acting antiviral drugs that led to cure rates approaching 100% in all patient populations after only 8-12 weeks of therapy. These efforts resulted in one of the greatest achievements in public health and provides the potential for eliminating HCV as a major disease worldwide. This volume is aimed at a broad audience of academic and industrial scientists interested in the discovery and development of drugs to treat viral diseases and those interested in reading about one of the most unique accomplishments in biomedical research. The volume will provide a one of a kind reference work that highlights the many efforts, from the discovery of the HCV virus, to the invention of breakthrough medicines and their use in the real world to cure patients. It is the companion book to the volume "HCV: The Journey from Discovery to a Cure - Volume II".

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. This book draws upon case studies and

practices of different types of DRR involvement by the private sector from all over the world. The book comprises two parts, Part I: Overview and Regional Cases; and Part II: Country Cases. The regional cases include those from Africa, Asia, Europe, and Central America, and the country cases include ones from India, Japan, the United States, Vietnam, Thailand, Bangladesh, Malaysia, and Nepal. DRR at the international level is discussed from the perspective of the United Nations International Strategy for Disaster Reduction (UNISDR). The perspective of the Asia–Pacific Economic Cooperation (APEC) is presented in the discussion of DRR at the societal level. The private sector is becoming more active in disaster management and plays an important role in distributing relief items and sending search and rescue teams in the response phase. However, once the response stage is over, private sector involvement tends to fade. While a number of disaster risk reduction (DRR) initiatives by the private sector are documented, they remain limited. The private sector can contribute enormously to DRR by developing business continuity plans, innovating technology for early warning systems, and providing and sharing technical knowledge, skills, and resources in the field of disaster preparedness. To strengthen DRR capacity, it is crucial to involve the private sector as major actors in DRR. The primary target groups for this book are students and researchers in the fields of disaster management and DRR studies. Another target group comprises practitioners and policy makers, who will be able to apply the collective knowledge from this work to policy and decision making. The book provides an overview of the current research trends and furnishes basic knowledge on this important topic. 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. 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. A touching children's book about an orca whale whose mother was killed and his journey back to his pod. Based on a true story in the Puget Sound

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. 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 This book describes the fortunes and activities of one of the few specialist publishing houses still in the hands of the same family that established it over years ago, and with it gives a p- trayal of those members who directed it. In doing so it covers a period of momentous historical events that directly and in- rectly shaped the firm's actions and achievements. But this volume tells not only, in word and picture, the story of Springer- Verlag but also, interwoven with it, the story of scientific p- lishing in Germany over the span of a hundred years. The text, densely packed with carefully researched facts and figures, is illuminated and supplemented by many illustrations whose captions, together with the author's notes, contain a wealth of important and interesting information. The reader is urged to read these captions as well as the notes so as to - preciate in full the events and people described. I have added a few footnotes to clarify or expand on some matters that may be unfamiliar to non-German readers. Because of the long period of time covered in these pages many of the documents and letters shown and commented upon are different in diction and style from those of today. An - tempt was made in the translation to keep the flavour of the original language and not contemporise it. 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. 110 white pages

College-ruled notebook (medium ruled) matte cover This funny Springer notebook is a great Springer gift under 10.00. It is the perfect companion for any Springer. Use it as a Springer journal, Springer planner or as a gift for a Springer. Keep track of your duties, shifts, successes, and improvements with this Springer diary.

Photovoltaics, the direct conversion of sunlight to electricity, is now the fastest growing technology for electricity generation. Present "first generation" products use the same silicon wafers as in microelectronics. "Second generation" thin-films, now entering the market, have the potential to greatly improve the economics by eliminating material costs. Martin Green, one of the world's foremost photovoltaic researchers, argues in this book that "second generation" photovoltaics will eventually reach its own material cost constraints, engendering a "third generation" of high performance thin-films. The book explores, self-consistently, the energy conversion potential of advanced approaches for

improving photovoltaic performance and outlines possible implementation paths. Artificial Intelligence (AI) will change the lives of people and businesses more fundamentally than many people can even imagine today. This book illustrates the importance of AI in an era of digitalization. It introduces the foundations of AI and explains its benefits and challenges for companies and entire industries. In this regard, AI is approached not just as yet another technology, but as a fundamental innovation, which will spread into all areas of the economy and life, and will disrupt business processes and business models in the years to come. In turn, the book assesses the potential that AI holds, and clarifies the framework that is necessary for pursuing a responsible approach to AI. In a series of best-practice cases, the book subsequently highlights a broad range of sectors and industries, from production to services; from customer service to marketing and sales; and in industries like retail, health care, energy, transportation and many more. In closing, a dedicated chapter outlines a roadmap for a specific corporate AI journey. No one can ignore intensive work with AI today - neither as a private person, let alone as a top performer in companies. This book offers a thorough, carefully crafted, and easy to understand entry into the field of AI. The central terms used in the AI ??context are given a very good explanation. In addition, a number of cases show what AI can do today and where the journey is heading. An important book that you should not miss! Professor Dr. Harley Krohmer University of Bern "Inspiring, thought provoking and comprehensive, this book is wittingly designed to be a catalyst for your individual and corporate AI journey." Avo Schönbohm, Professor at the Berlin School of Economics and Law, Enterprise Game Designer at LUDEO and Business Punk This is the first machine-generated scientific book in chemistry published by Springer Nature. Serving as an innovative prototype defining the current status of the technology, it also provides an overview about the latest trends of lithium-ion batteries research. This book explores future ways of informing researchers and professionals. State-of-the-art computer algorithms were applied to: select relevant sources from Springer Nature publications, arrange these in a topical order, and provide succinct summaries of these articles. The result is a cross-corpora auto-summarization of current texts, organized by means of a similarity-based clustering routine in coherent chapters and sections. This book summarizes more than 150 research articles published from 2016 to 2018 and provides an informative and concise overview of recent research into anode and cathode materials as well as further aspects such as separators, polymer electrolytes, thermal behavior and modelling. With this prototype, Springer Nature has begun an innovative journey to explore the field of machine-generated content and to find answers to the manifold questions on this fascinating topic. Therefore it was intentionally decided not to manually polish or copy-edit any of the texts so as to highlight the current status and remaining boundaries of machine-generated content. Our goal is to initiate a broad discussion, together with the research community and domain experts, about the future opportunities, challenges and limitations of this technology. 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. 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. This book is open access under a CC BY 4.0 license. This book is intended primarily for practitioners who are facing the “softwareisation” of their business. It presents the Scaling Management Framework, a model based on collected experiences from companies that have already made the journey to give software a central role within the organization. The model is unique because it suggests a holistic method to analyze and plan your journey. It simply means that you can't just focus solely on your products or services. You also have to look closely at your processes and your organization, the way you make decisions and get things done. Inevitably, these will have to change. Software has changed the rules of the game. The world talks about the digitalization in industry and society – how the focus has shifted from producing tangible things towards software and services. This trend started many years ago, but is now affecting every company, whether it's a software company or not. There are many companies that have already made a digitalization journey – and many are about to embark on this journey – like you. How do you transform your organization when software is becoming a critical part of your business? This book comes with a map, a compass, and suggested journeys along with selected travel stories comprising best practices and lessons learned from past digitalization journeys. Use the map to find your way in the digitalization landscape, and use the compass to find the direction of your journey. This unique book explores the world of q , known technically as basic hypergeometric series, and represents the author's personal and life-long study—inspired by Ramanujan—of aspects of this broad topic. While the level of

mathematical sophistication is graduated, the book is designed to appeal to advanced undergraduates as well as researchers in the field. The principal aims are to demonstrate the power of the methods and the beauty of the results. The book contains novel proofs of many results in the theory of partitions and the theory of representations, as well as associated identities. Though not specifically designed as a textbook, parts of it may be presented in course work; it has many suitable exercises. After an introductory chapter, the power of q -series is demonstrated with proofs of Lagrange's four-squares theorem and Gauss's two-squares theorem. Attention then turns to partitions and Ramanujan's partition congruences. Several proofs of these are given throughout the book. Many chapters are devoted to related and other associated topics. One highlight is a simple proof of an identity of Jacobi with application to string theory. On the way, we come across the Rogers–Ramanujan identities and the Rogers–Ramanujan continued fraction, the famous “forty identities” of Ramanujan, and the representation results of Jacobi, Dirichlet and Lorenz, not to mention many other interesting and beautiful results. We also meet a challenge of D.H. Lehmer to give a formula for the number of partitions of a number into four squares, prove a “mysterious” partition theorem of H. Farkas and prove a conjecture of R.Wm. Gosper “which even Erdős couldn't do.” The book concludes with a look at Ramanujan's remarkable tau function. "...The Multiversal book series is equally unique, providing book-length extensions of the lectures with enough additional depth for those who truly want to explore these fields, while also providing the kind of clarity that is appropriate for interested lay people to grasp the general principles involved." - Lawrence M. Krauss

Cosmic Update Covers: A novel approach to uncover the dark faces of the Standard Model of cosmology. The possibility that Dark Energy and Dark Matter are manifestations of the inhomogeneous geometry of our Universe. On the history of cosmological model building and the general architecture of cosmological modes. Illustrations on the Large Scale Structure of the Universe. A new perspective on the classical static Einstein Cosmos. Global properties of World Models including their Topology. The Arrow of Time in a Universe with a Positive Cosmological Constant. Exploring the consequences of a fundamental Cosmological Constant for our Universe. Exploring why the current observed acceleration of the Universe may not be its final destiny. Demonstrating that nature forbids the existence of a pure Cosmological Constant. Our current understanding of the long term (in time scales that greatly exceed the current age of the Universe) future of the Universe. The long term fate and eventual destruction of the astrophysical objects that populate the universe -- including clusters, galaxies, stars, planets, and black holes. The material is presented in a layperson-friendly language followed by additional technical sections that explain the basic equations and principles. This feature is very attractive to readers who want to learn more about the theories involved beyond the basic description. "Multiversal Journeys™ is a trademark of Farzad Nekoogar and Multiversal Journeys, a 501 (c) (3) nonprofit organization." This book presents a series of high performance product design (PD) and development best practices that can create or improve product

development organization. In contrast to other books that focus only on Toyota or other individual companies applying lean IPD, this book explains the lean philosophy more broadly and includes discussions of systems engineering, design for X (DFX), agile development, integrated product development, and project management. The “Lean Journey” proposed here takes a value-centric approach, where the lean principles are applied to PD to allow the tools and methods selected to emerge from observation of the individual characteristics of each enterprise. This means that understanding lean product development (LPD) is not about knowing which tools are available but knowing how to apply the philosophy. The book comes with an accompanying manual with problems and solutions available on Springer Extras. The goal of this book is to provide, in a friendly and refreshing manner, both theoretical concepts and practical techniques for the important and exciting field of Artificial Intelligence that can be directly applied to real-world healthcare problems. Healthcare – the final frontier. Lately, it seems like Pandora opened the box and evil was released into the world. Fortunately, there was one thing left in the box: hope. In recent decades, hope has been increasingly represented by Intelligent Decision Support Systems. Their continuing mission: to explore strange new diseases, to seek out new treatments and drugs, and to intelligently manage healthcare resources and patients. Hence, this book is designed for all those who wish to learn how to explore, analyze and find new solutions for the most challenging domain of all time: healthcare. 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. This absorbing book describes the long development of the Soviet space shuttle system, its infrastructure and the space agency’s plans to follow up the first historic unmanned mission. The book includes comparisons with the American shuttle system and offers accounts of the Soviet test pilots chosen for training to fly the system, and the operational, political and engineering problems that finally sealed the fate of Buran and ultimately of NASA’s Shuttle fleet. This volume contains the proceedings of the eleventh British National Conference on Databases, held at Keele University, England. A dominant theme in the volume is the provision of the means to enhance the capabilities of databases to handle information that has a rich semantic structure. A major research question is how to achieve such a semantic scale-up without sacrificing performance. There are currently two main paradigms within which it is possible to

propose answers to this question, deduction-oriented and object-oriented. Both paradigms are well represented in this collection, with the balance in the direction of the deductive approach, which is followed by both the invited papers, by Michael Freeston from the European Computer-Industry Research Centre in Munich and Carlo Zaniolo from the University of California at Los Angeles. In addition, the volume contains 13 full papers selected from a total of 36 submissions. 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. Having always been fascinated by these singular landscapes, Sergio Rossi reconstructs some of the episodes that have marked the exploration of these territories, such as the dramatic race between Amundsen and Scott to conquer the South Pole, and Captain Shackleton's odyssey to save his crew from certain death. But also modern trips including his own to these remote areas, explaining many aspects of the current science and political competition that is underway. The book leads us on an entertaining overview of all the problems and opportunities that the planet's most forgotten continent offers to humans. A remote mass of ice upon which our future as a species depends and which we cannot continue to ignore any longer.

Maida Springer was an active participant in shaping a history that involved powerful movements for social, political and economic equality and justice for workers women, and African Americans. Maida Springer is the first full-length biography to document and analyze the central role played by Springer in international affairs, particularly in the formation of AFL-CIO's African policy during the Cold War and African independence movements. Richards explores the ways in which pan-Africanism, racism, sexism and anti-Communism affected Springer's political development, her labor activism, and her relationship with labor leaders in the AFL-CIO, the International Confederation of Free Trade Unions (ICFTU), and in African unions. Springer's life experiences and work reveal the complex nature of black struggles for equality and justice. A strong supporter of both the AFL-CIO and the ICFTU, Springer nonetheless recognized that both organizations were fraught with racism, sexism, and ethnocentrism. She also understood that charges of Communism were often used as a way to thwart African American demands for social justice. As an African-American, she found herself in the unenviable position of promoting to Africans the ideals of American democracy from which she was excluded from fully enjoying. Richards's biography of Maida Springer uniquely connects pan-Africanism, national and international labor relations, the Cold War, and African American, labor, women's, and civil rights histories. In addition to

documenting Springer's role in international labor relations, the biography provides a larger view of a whole range of political leaders and social movements. Maida Springer is a stirring biography that spans the fields of women studies, African American studies, and labor history. This book opens with an axiomatic description of Euclidean and non-Euclidean geometries. Euclidean geometry is the starting point to understand all other geometries and it is the cornerstone for our basic intuition of vector spaces. The generalization to non-Euclidean geometry is the following step to develop the language of Special and General Relativity. These theories are discussed starting from a full geometric point of view. Differential geometry is presented in the simplest way and it is applied to describe the physical world. The final result of this construction is deriving the Einstein field equations for gravitation and spacetime dynamics. Possible solutions, and their physical implications are also discussed: the Schwarzschild metric, the relativistic trajectory of planets, the deflection of light, the black holes, the cosmological solutions like de Sitter, Friedmann-Lemaître-Robertson-Walker, and Gödel ones. Some current problems like dark energy are also sketched. The book is self-contained and includes details of all proofs. It provides solutions or tips to solve problems and exercises. It is designed for undergraduate students and for all readers who want a first geometric approach to Special and General Relativity. 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. On the 10th of May 1842, his 25th birthday, the Berlin bookseller Julius Springer opened his own bookstore and at the same time began a career as a publisher. The publishing program was extended over the following generations, and the company expanded to become the most important German scientific publishing house. The author describes this development, mostly using information from the Springer archives. The addition of nearly 400 figures and

tables makes this a highly informative document of the history of bookselling, publishing and science. A second volume contains the history of the publishing house from 1945 to 1992. 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. 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. 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 narrates his experience of growing from the countryside to the international stage and becoming a common friend in Chinese and German economic circles. It can be said that with the impetus of globalization, his Hidden Champion Theory has been widely practiced in both Germany and China. The combination of the Hidden Champion Theory and the pragmatic development of small and medium-sized enterprises has promoted the craftsmanship, deepened international cooperation, and enriched the connotation of Sino-German economic and trade cooperation. In recent years, Sino-German pragmatic economic and trade cooperation has maintained a continuous development momentum. Both the industrial chain and the supply chain cooperation are safe and stable. In the future, we will look forward to collaborating more with the German business community to uphold multilateralism, promote trade and investment liberalization and facilitation, assist cooperation in various fields to achieve positive results, push the continuous expansion of two-way opening forward." Mr. LIU Dianxun Director General of Investment Promotion Agency of Ministry of Commerce, P.R.China 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. This book tells the stories of forty New Englanders who were forced ('warned out') to leave various communities in Rhode Island. Their stories are typical of what happened to the poor, homeless, and vagrant in other New England communities in the 18th century. 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! 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. "Modern physics is rife with provocative and fascinating ideas, from quantum mechanics to the multiverse. But as interesting as these concepts are, they are also easy to understand. This book, written with deft hands by true experts in the field, helps to illuminate some of the most important and game-changing ideas in physics today." Sean M. Carroll "The Multiversal book series is equally unique, providing book-length extensions of the lectures with enough additional depth for those who truly want to explore these fields, while also providing the kind of clarity that is appropriate for interested lay people to grasp the general principles involved. " Lawrence M. Krauss This book explores, explains and debunks some common misconceptions about quantum physics, particle physics, space-time, and Multiverse cosmology. It seeks to separate science from pseudoscience. The material is presented in layperson-friendly language, followed by additional technical sections which explain basic equations and principles. This feature is very attractive to non-expert readers who nevertheless seek a deeper understanding of the theories, and wish to explore beyond just the basic description. Multiversal Journeys™ is a trademark of Farzad Nekoogar and Multiversal Journeys, a 501 (c) (3) nonprofit organization.

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