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Data-Driven Science and Engineering **Engineering Elephants** Music, Physics and Engineering **The Engineering Book** **The Fascinating Engineering Book for Kids** **Art of Doing Science and Engineering** *The Design and Engineering of Curiosity* Integral Methods in Science and Engineering. Volume 2 **Exploration and Engineering** Integral Methods in Science and Engineering **Connecting Science and Engineering Education Practices in Meaningful Ways** Mathematical Methods in Physics and Engineering *The Art of Insight in Science and Engineering* **Hydrogen Science and Engineering, 2 Volume Set** **Wind Science and Engineering Reliability** **Physics and Engineering Higher Education for Science and Engineering Materials Science and Engineering Properties, SI Edition** *Changing America* **The Fantastical Engineer** Engineering for Teens Engineers and Engineering **Science and Engineering Personnel: National Overview** Collaborations in Architecture and Engineering **How to Be an Engineer** **The Kids' Guide to Sports Design and Engineering** **Microservices** **Physics for Students of Science and Engineering** *Proceedings of the Tenth International Conference on Management Science and Engineering Management* *Numerical Modeling in Materials Science and Engineering* **ENVIRONMENTAL AND ENGINEERING GEOLOGY -Volume I** *Physics and Engineering of Radiation Detection* **Mining and Engineering Record** **Newnes Engineering and Physical Science Pocket Book** **Integrating Sustainability** **Thinking in Science and Engineering Curricula** **Mining and Engineering World** Industrial and Engineering Chemistry Chaos Engineering **Particle Technology and Engineering** Issues Affecting the Future of the U.S. Space Science and Engineering Workforce

Connecting Science and Engineering Education Practices in Meaningful Ways Apr 13 2022 The need for a scientifically literate citizenry, one that is able to think critically and engage productively in the engineering design process, has never been greater. By raising engineering design to the same level as scientific inquiry the Next Generation Science Standards' (NGSS) have signaled their commitment to the integration of engineering design into the fabric of science education. This call has raised many critical questions...How well do these new standards represent what actually engineers do? Where do the deep connections among science and engineering practices lie? To what extent can (or even should) science and engineering practices co-exist in formal and informal educational spaces? Which of the core science concepts are best to leverage in the pursuit of coherent and compelling integration of engineering practices? What science important content may be pushed aside? This book, tackles many of these tough questions head on. All of the contributing authors consider the same core question: Given the rapidly changing landscape of science education, including the elevated status of engineering design, what are the best approaches to the effective integration of the science and engineering practices? They answered with rich descriptions of pioneering approaches, critical insights, and useful practical examples of how embodying a culture of interdisciplinarity and innovation can fuel the development of a scientifically literate citizenry . This collection of work builds traversable bridges across diverse research communities and begins to break down long standing disciplinary silos that have historically often hamstrung well-meaning efforts to bring research and practice from science and engineering together in meaningful and lasting ways.

Mining and Engineering Record May 22 2020

Chaos Engineering Dec 17 2019 As more companies move toward microservices and other distributed technologies, the complexity of these systems increases. You can't remove the complexity, but through Chaos Engineering you can discover vulnerabilities and prevent outages before

they impact your customers. This practical guide shows engineers how to navigate complex systems while optimizing to meet business goals. Two of the field's prominent figures, Casey Rosenthal and Nora Jones, pioneered the discipline while working together at Netflix. In this book, they expound on the what, how, and why of Chaos Engineering while facilitating a conversation from practitioners across industries. Many chapters are written by contributing authors to widen the perspective across verticals within (and beyond) the software industry. Learn how Chaos Engineering enables your organization to navigate complexity Explore a methodology to avoid failures within your application, network, and infrastructure Move from theory to practice through real-world stories from industry experts at Google, Microsoft, Slack, and LinkedIn, among others Establish a framework for thinking about complexity within software systems Design a Chaos Engineering program around game days and move toward highly targeted, automated experiments Learn how to design continuous collaborative chaos experiments

Newnes Engineering and Physical Science Pocket Book Apr 20 2020
This new edition of the Newnes Engineering and Physical Science Pocket Book, contains much new and updated material, including data on auto, isolating, three-phase, current and voltage transformers, d.c. machines and induction motors, complex wave forms and field theory, ensuring that this volume has all the information the student, engineer, scientist or technician may need, at their fingertips. Formulae, definitions and general information are presented logically and clearly, allowing the user to access specific data quickly and easily without having to wade through extraneous material. This handy reference book is relevant to a wide range of students and technicians at all levels. J O Bird is the author of many successful textbooks in the areas of engineering, mathematics and science. P J Chivers is the author of several textbooks on chemistry.

The Fascinating Engineering Book for Kids Oct 19 2022 From acoustics to holograms--explore awesome engineering facts for kids ages

8 to 12 Did you know that computer chips can be thousands of times smaller than a grain of sand? Or that whale fins inspired the wind turbine? The Fascinating Engineering Book for Kids is packed with 500 incredible facts about every branch of engineering with full-color pictures to match! Kids (and adults) will learn about some of the most famous and influential engineers in history, and explore how engineers helped build so many of the amazing things in our world, from underwater machines to spaceships and satellites! Dig into the best in kids' engineering books with fascinating trivia like: The Ancient Theatre of Epidaurus is an amphitheater in Greece built in the fourth century. It was designed so well that it is still used today! GloFish are genetically engineered to enhance their luminescence--a glow that can be seen under ultraviolet lights. Robotic engineers can work in animatronics where they design and build robots for entertainment, like the ones you see in theme parks. Inspire curiosity and a lifelong love of science with this mind-boggling book of engineering for kids.

Data-Driven Science and Engineering Feb 23 2023 This beginning graduate textbook teaches data science and machine learning methods for modeling, prediction, and control of complex systems.

Integral Methods in Science and Engineering May 14 2022 The physical world is studied by means of mathematical models, which consist of differential, integral, and integro-differential equations accompanied by a large assortment of initial and boundary conditions. In certain circumstances, such models yield exact analytic solutions. When they do not, they are solved numerically by means of various approximation schemes. Whether analytic or numerical, these solutions share a common feature: they are constructed by means of the powerful tool of integration—the focus of this self-contained book. An outgrowth of the Ninth International Conference on Integral Methods in Science and Engineering, this work illustrates the application of integral methods to diverse problems in mathematics, physics, biology, and engineering. The thirty two chapters of the book, written by scientists with established

credentials in their fields, contain state-of-the-art information on current research in a variety of important practical disciplines. The problems examined arise in real-life processes and phenomena, and the solution techniques range from theoretical integral equations to finite and boundary elements. Specific topics covered include spectral computations, atmospheric pollutant dispersion, vibration of drilling masts, bending of thermoelastic plates, homogenization, equilibria in nonlinear elasticity, modeling of syringomyelia, fractional diffusion equations, operators on Lipschitz domains, systems with concentrated masses, transmission problems, equilibrium shape of axisymmetric vesicles, boundary layer theory, and many more. *Integral Methods in Science and Engineering* is a useful and practical guide to a variety of topics of interest to pure and applied mathematicians, physicists, biologists, and civil and mechanical engineers, at both the professional and graduate student level.

Integrating Sustainability Thinking in Science and Engineering Curricula Mar 20 2020 Including considerations of sustainability in universities' activities has long since become mainstream. However, there is still much to be done with regard to the full integration of sustainability thinking into science and engineering curricula. Among the problems that hinder progress in this field, the lack of sound information on how to actually implement it is prominent. Created in order to address this need, this book presents a wealth of information on innovative approaches, methods and tools that may be helpful in translating sustainability principles into practice.

Collaborations in Architecture and Engineering Feb 28 2021

Collaborations in Architecture and Engineering focuses on team-building and problem-solving between architects and engineers to prepare you for working together in practice. It provides an overview and foundation for interdisciplinary collaboration so that you can create innovative proposals for optimization, performance, and aesthetic goals. It also shows you how to solve real-world problems and how to engage creatively with

technological challenges so that you can be a productive member of any team. The authors, an architect and an engineer, share guidelines learned from their experiences and observations on how to insure productive communication, engage in interdisciplinary discussions, and establish common goals and values. Throughout the book are many case study examples of architect and engineer collaborations—such as those between SANAA and Mutsuro Sasaki, Foster + Partners and Buro Happold, Steven Holl and Guy Nordenson, and SHoP Architects and ARUP. The book also includes a discussion about integrated project delivery (IPD) contracts and administration, so you'll be ready for better integration.

Integral Methods in Science and Engineering, Volume 2 Jul 16 2022 The two volumes contain 65 chapters, which are based on talks presented by reputable researchers in the field at the Tenth International Conference on Integral Methods in Science and Engineering. The chapters address a wide variety of methodologies, from the construction of boundary integral methods to the application of integration-based analytic and computational techniques in almost all aspects of today's technological world. Both volumes are useful references for a broad audience of professionals, including pure and applied mathematicians, physicists, biologists, and mechanical, civil, and electrical engineers, as well as graduate students, who use integration as a fundamental technique in their research.

Industrial and Engineering Chemistry Jan 18 2020

Proceedings of the Tenth International Conference on Management Science and Engineering Management Sep 25 2020 This book presents the proceedings of the Tenth International Conference on Management Science and Engineering Management (ICMSEM2016) held from August 30 to September 02, 2016 at Baku, Azerbaijan and organized by the International Society of Management Science and Engineering Management, Sichuan University (Chengdu, China) and Ministry of Education of Azerbaijan. The aim of conference was to foster

international research collaborations in management science and engineering management as well as to provide a forum to present current research findings. The presented papers were selected and reviewed by the Program Committee, made up of respected experts in the area of management science and engineering management from around the globe. The contributions focus on identifying management science problems in engineering, innovatively using management theory and methods to solve engineering problems effectively and establishing novel management theories and methods to address new engineering management issues.

Physics and Engineering of Radiation Detection Jun 22 2020 This book presents an overview of the physics of radiation detection and its applications. It covers the origins and properties of different kinds of ionizing radiation, their detection and measurement, and the procedures used to protect people and the environment from their potentially harmful effects. It details the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content. It provides useful formulae and explains methodologies to solve problems related to radiation measurements. With abundance of worked-out examples and end-of-chapter problems, this book enables the reader to understand the underlying physical principles and their applications. Detailed discussions on different detection media, such as gases, liquids, liquefied gases, semiconductors, and scintillators make this book an excellent source of information for students as well as professionals working in related fields. Chapters on statistics, data analysis techniques, software for data analysis, and data acquisition systems provide the reader with necessary skills to design and build practical systems and perform data analysis. * Covers the modern techniques involved in detection and measurement of radiation and the underlying physical principles * Illustrates theoretical and practical details with an abundance of practical, worked-out examples * Provides practice problems at the end of each chapter

The Art of Insight in Science and Engineering Feb 11 2022 Tools to make hard problems easier to solve. In this book, Sanjoy Mahajan shows us that the way to master complexity is through insight rather than precision. Precision can overwhelm us with information, whereas insight connects seemingly disparate pieces of information into a simple picture. Unlike computers, humans depend on insight. Based on the author's fifteen years of teaching at MIT, Cambridge University, and Olin College, *The Art of Insight in Science and Engineering* shows us how to build insight and find understanding, giving readers tools to help them solve any problem in science and engineering. To master complexity, we can organize it or discard it. *The Art of Insight in Science and Engineering* first teaches the tools for organizing complexity, then distinguishes the two paths for discarding complexity: with and without loss of information. Questions and problems throughout the text help readers master and apply these groups of tools. Armed with this three-part toolchest, and without complicated mathematics, readers can estimate the flight range of birds and planes and the strength of chemical bonds, understand the physics of pianos and xylophones, and explain why skies are blue and sunsets are red. *The Art of Insight in Science and Engineering* will appear in print and online under a Creative Commons Noncommercial Share Alike license.

Mining and Engineering World Feb 17 2020

ENVIRONMENTAL AND ENGINEERING GEOLOGY -Volume I

Jul 24 2020 Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as: engineering and environmental geology, and their importance in our life. It also includes a discussion of some new applications of geoscience, such as medical

geology, forensic geology, use of underground space for human occupancy, and geoindicators. These four volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

The Fantastical Engineer Jul 04 2021 Thorough and engaging guide to theme park and entertainment careers for engineers. Includes information on theme park design and an employment resource directory.

The Design and Engineering of Curiosity Aug 17 2022 This book describes the most complex machine ever sent to another planet: Curiosity. It is a one-ton robot with two brains, seventeen cameras, six wheels, nuclear power, and a laser beam on its head. No one human understands how all of its systems and instruments work. This essential reference to the Curiosity mission explains the engineering behind every system on the rover, from its rocket-powered jetpack to its radioisotope thermoelectric generator to its fiendishly complex sample handling system. Its lavishly illustrated text explains how all the instruments work -- its cameras, spectrometers, sample-cooking oven, and weather station -- and describes the instruments' abilities and limitations. It tells you how the systems have functioned on Mars, and how scientists and engineers have worked around problems developed on a faraway planet: holey wheels and broken focus lasers. And it explains the grueling mission operations schedule that keeps the rover working day in and day out.

Higher Education for Science and Engineering Oct 07 2021

Mathematical Methods in Physics and Engineering Mar 12 2022 Algebraically based approach to vectors, mapping, diffraction, and other topics covers generalized functions, analytic function theory, Hilbert spaces, calculus of variations, boundary value problems, integral equations, more. 1969 edition.

Changing America Aug 05 2021

Hydrogen Science and Engineering, 2 Volume Set Jan 10 2022

Authored by 50 top academic, government and industry researchers, this

handbook explores mature, evolving technologies for a clean, economically viable alternative to non-renewable energy. In so doing, it also discusses such broader topics as the environmental impact, education, safety and regulatory developments. The text is all-encompassing, covering a wide range that includes hydrogen as an energy carrier, hydrogen for storage of renewable energy, and incorporating hydrogen technologies into existing technologies.

Physics for Students of Science and Engineering Oct 27 2020

Transparencies to Accompany Physics for Students of Science and Engineering is a collection of 151 transparencies, illustrations, figures, and a table of moments of inertia of some common shapes that students in physics, science or engineering will find useful in advancing their course. One type of figure concerns vectors, particularly a graphical addition of three vectors, a graphical representation of vector subtraction, and of a particle in uniform circular motion. The illustrations show the construction of a force diagram with the subject block in the force diagram represented as a particle at the origin of a rectangular coordinate system. Other illustrations include the construction of force diagrams for a two-body system and for a block moving down an inclined plane. The illustrations depict an object on a horizontal surface resting, resting with a small horizontal force applied, resting with a great horizontal force applied without moving the object, and moving at a constant velocity with a horizontal force applied. Another figure shows a section of a thin soap film with air on either side of the film, with the light reaching each surface of the film partly reflected and partly transmitted. Each surface in the diagram indicates the phase changes that occur upon reflection. Some examples of moments of inertia include those of a hoop, disk, uniform solid sphere, and a uniform long, thin rod. The book is an aid to students and to professors of physics, calculus, and related courses in science or engineering.

[Engineering for Teens](#) Jun 03 2021 Explore engineering as a career with this introduction for ages 12 to 16 The job of an engineer is to solve all

sorts of complex challenges facing the world while improving our lives through creative, innovative ideas. This engineering book for teens gives you a look into what engineers do and how they drive society forward through math and science. From designing tablets and smartphones to reimagining the way we collect and store renewable energy, this engineering book for teens introduces you to the major engineering disciplines and their distinct specialties, famous engineers throughout history, and more. Engineering for Teens offers: Engineering fundamentals--Discover the four main branches of engineering and their different specialties. Inspired inventions--Get examples of the incredible things that engineers have created, like fuel cells and medicines. Inclusivity in engineering--Learn all about the diversity within the field of engineering. Discover the wonders of engineering and prepare yourself for a life of scientific discovery with this engineering book for teens.

Particle Technology and Engineering Nov 15 2019 Particle Technology and Engineering presents the basic knowledge and fundamental concepts that are needed by engineers dealing with particles and powders. The book provides a comprehensive reference and introduction to the topic, ranging from single particle characterization to bulk powder properties, from particle-particle interaction to particle-fluid interaction, from fundamental mechanics to advanced computational mechanics for particle and powder systems. The content focuses on fundamental concepts, mechanistic analysis and computational approaches. The first six chapters present basic information on properties of single particles and powder systems and their characterisation (covering the fundamental characteristics of bulk solids (powders) and building an understanding of density, surface area, porosity, and flow), as well as particle-fluid interactions, gas-solid and liquid-solid systems, with applications in fluidization and pneumatic conveying. The last four chapters have an emphasis on the mechanics of particle and powder systems, including the mechanical behaviour of powder systems during storage and flow, contact mechanics of particles, discrete element

methods for modelling particle systems, and finite element methods for analysing powder systems. This thorough guide is beneficial to undergraduates in chemical and other types of engineering, to chemical and process engineers in industry, and early stage researchers. It also provides a reference to experienced researchers on mathematical and mechanistic analysis of particulate systems, and on advanced computational methods. Provides a simple introduction to core topics in particle technology: characterisation of particles and powders; interaction between particles, gases and liquids; and some useful examples of gas-solid and liquid-solid systems Introduces the principles and applications of two useful computational approaches: discrete element modelling and finite element modelling Enables engineers to build their knowledge and skills and to enhance their mechanistic understanding of particulate systems

Wind Science and Engineering Dec 09 2021 This book provides an essential overview of wind science and engineering, taking readers on a journey through the origins, developments, fundamentals, recent advancements and latest trends in this broad field. Along the way, it addresses a diverse range of topics, including: atmospheric physics; meteorology; micrometeorology; climatology; the aerodynamics of buildings, aircraft, sailing boats, road vehicles and trains; wind energy; atmospheric pollution; soil erosion; snow drift, windbreaks and crops; bioclimatic city-planning and architecture; wind actions and effects on structures; and wind hazards, vulnerability and risk. In order to provide a comprehensive overview of wind and its manifold effects, the book combines scientific, descriptive and narrative chapters. The book is chiefly intended for students and lecturers, for those who want to learn about the genesis and evolution of this topic, and for the multitude of scholars whose work involves the wind.

Reliability Physics and Engineering Nov 08 2021 "Reliability Physics and Engineering" provides critically important information for designing and building reliable cost-effective products. The textbook contains

numerous example problems with solutions. Included at the end of each chapter are exercise problems and answers. "Reliability Physics and Engineering" is a useful resource for students, engineers, and materials scientists.

Engineering Elephants Jan 22 2023 Kids learn about everyday projects created by engineers.

Music, Physics and Engineering Dec 21 2022 This extraordinarily comprehensive text, requiring no special background, discusses the nature of sound waves, musical instruments, musical notation, acoustic materials, elements of sound reproduction systems, and electronic music. Includes 376 figures.

Art of Doing Science and Engineering Sep 18 2022 Highly effective thinking is an art that engineers and scientists can be taught to develop. By presenting actual experiences and analyzing them as they are described, the author conveys the developmental thought processes employed and shows a style of thinking that leads to successful results is something that can be learned. Along with spectacular successes, the author also conveys how failures contributed to shaping the thought processes. Provides the reader with a style of thinking that will enhance a person's ability to function as a problem-solver of complex technical issues. Consists of a collection of stories about the author's participation in significant discoveries, relating how those discoveries came about and, most importantly, provides analysis about the thought processes and reasoning that took place as the author and his associates progressed through engineering problems.

Numerical Modeling in Materials Science and Engineering Aug 25 2020 Computing application to materials science is one of the fastest-growing research areas. This book introduces the concepts and methodologies related to the modeling of the complex phenomena occurring in materials processing. It is intended for undergraduate and graduate students in materials science and engineering, mechanical engineering and physics, and for engineering professionals or researchers.

Issues Affecting the Future of the U.S. Space Science and Engineering Workforce Oct 15 2019 In January 2006, the President announced a new civilian space policy focusing on exploration. As part of its preparations to implement that policy, NASA asked the NRC to explore long-range science and technology workforce needs to achieve the space exploration vision, identify obstacles to filling those needs, and put forward solutions to those obstacles. As part of the study, the NRC held a workshop to identify important factors affecting NASA's future workforce and its capacity to implement the exploration vision. This interim report presents a summary of the highlights of that workshop and an initial set of findings. The report provides a review of the workforce implications of NASA's plans, an assessment of science and technology workforce demographics, an analysis of factors affecting the aerospace workforce for both NASA and the relevant aerospace industry, and preliminary findings and recommendations. A final report is scheduled for completion in early 2007.

Science and Engineering Personnel: National Overview Apr 01 2021

The Engineering Book Nov 20 2022 Engineering is where human knowledge meets real-world problems--and solves them. It's the source of some of our greatest inventions, from the catapult to the jet engine, from the cell phone to the Large Hadron Collider. Marshall Brain, creator of the How Stuff Works series, provides a detailed look at 250 milestones in aerospace, architecture, chemistry, computer engineering, and more, from ancient history to the present.

Exploration and Engineering Jun 15 2022 Getting to Mars required engineering genius, scientific strategy, and the drive to persevere in the face of failure. Although the Jet Propulsion Laboratory in Pasadena, California, has become synonymous with the United States' planetary exploration during the past half century, its most recent focus has been on Mars. Beginning in the 1990s and continuing through the Mars Phoenix mission of 2007, JPL led the way in engineering an impressive, rapidly evolving succession of Mars orbiters and landers, including roving

robotic vehicles whose successful deployment onto the Martian surface posed some of the most complicated technical problems in space flight history. In *Exploration and Engineering*, Erik M. Conway reveals how JPL engineers' creative technological feats led to major breakthroughs in Mars exploration. He takes readers into the heart of the lab's problem-solving approach and management structure, where talented scientists grappled with technical challenges while also coping, not always successfully, with funding shortfalls, unrealistic schedules, and managerial turmoil. Conway, JPL's historian, offers an insider's perspective into the changing goals of Mars exploration, the ways in which sophisticated computer simulations drove the design process, and the remarkable evolution of landing technologies over a thirty-year period.

How to Be an Engineer Jan 30 2021 Clearly explained engineering concepts and fun, simple projects give kids ages 7-9 the chance to put their STEAM knowledge to the test! Teach kids to think like an engineer! The engaging projects in this book will encourage kids to investigate using items from around the house. Build a robot arm out of rulers; learn about jet propulsion with balloons; crush toilet-paper rolls to explore materials; and much more. Read about how engineers use STEAM subjects and their imaginations to think critically and solve problems. Be inspired by engineering heroes such as Leonardo da Vinci, Mae Jemison, and Elon Musk. Fun questions, engineering experiments, and real-life scenarios come together to make engineering relevant. In *How to Be an Engineer*, the emphasis is on inspiring kids, which means less time at a computer and more time exploring in the real world.

The Kids' Guide to Sports Design and Engineering Dec 29 2020 Explores how sports have evolved due to advancements in design and engineering, including playing fields, balls, sports shoes, and sports clothing.

Materials Science and Engineering Properties, SI Edition Sep 06 2021 MATERIALS SCIENCE AND ENGINEERING PROPERTIES is

primarily aimed at mechanical and aerospace engineering students, building on actual science fundamentals before building them into engineering applications. Even though the book focuses on mechanical properties of materials, it also includes a chapter on materials selection, making it extremely useful to civil engineers as well. The purpose of this textbook is to provide students with a materials science and engineering text that offers a sufficient scientific basis that engineering properties of materials can be understood by students. In addition to the introductory chapters on materials science, there are chapters on mechanical properties, how to make strong solids, mechanical properties of engineering materials, the effects of temperature and time on mechanical properties, electrochemical effects on materials including corrosion, electroprocessing, batteries, and fuel cells, fracture and fatigue, composite materials, material selection, and experimental methods in material science. In addition, there are appendices on the web site that contain the derivations of equations and advanced subjects related to the written textbook, and chapters on electrical, magnetic, and photonic properties of materials. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineers and Engineering May 02 2021

Microservices Nov 27 2020 This book describes in contributions by scientists and practitioners the development of scientific concepts, technologies, engineering techniques and tools for a service-based society. The focus is on microservices, i.e cohesive, independent processes deployed in isolation and equipped with dedicated memory persistence tools, which interact via messages. The book is structured in six parts. Part 1 “Opening” analyzes the new (and old) challenges including service design and specification, data integrity, and consistency management and provides the introductory information needed to successfully digest the remaining parts. Part 2 “Migration” discusses the issue of migration from monoliths to microservices and their loosely coupled architecture. Part 3 “Modeling” introduces a catalog and a

taxonomy of the most common microservices anti-patterns and identifies common problems. It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches. Next, Part 4 is dedicated to various aspects of “Development and Deployment”. Part 5 then covers “Applications” of microservices, presenting case studies from Industry 4.0, Netflix, and customized SaaS examples. Eventually, Part 6 focuses on “Education” and reports on experiences made in special programs, both at academic level as a master program course and for practitioners in an industrial training. As only a joint effort between academia and industry can lead to the release of modern paradigm-based programming languages, and subsequently to the deployment of robust and scalable software systems, the book mainly targets researchers in academia and industry who develop tools and applications for microservices.

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