Software Engineering By Agarwal

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Maine IIT Meain Jo Nahi Seekha - Rajeev Agarwal 2014-09-09
This is Hindi Translation of English Book What I Did Not Learn at IIT written by Rajeev Agarwal. Every year graduating engineers are told that they are destined for success. But what are the habits and behaviours that actually lead to success? In What I did not learn at IIT, Rajeev Agarwal, the Founder and CEO of MAQ Software, has distilled decades of life experience into one accessible and informative guide. In simple language, he explains the success techniques he applied and what worked for him. Encouraging graduates to look at their careers over a 40-year span, Rajeev explains that successful people choose to be passionate about every job they have. Using a skillful combination of personal stories and checklists, What I did not learn at IIT provides students—young and old—with a roadmap for success.

What I did not learn at IIT - Rajeev Agarwal 2017-08-29
Every year graduating engineers are told that they are destined for success. But what are the habits and behaviours that actually lead to success? In What I did not learn at IIT, Rajeev Agarwal, founder and CEO of MAQ Software, has distilled decades of life experience into one accessible and informative guide. In simple language, he explains the success techniques he applied and what worked for him. Encouraging graduates to look at their careers over a forty-year span, Rajeev explains that successful

people choose to be passionate about every job they have. Using a skillful combination of personal stories and checklists, What I did not learn at IIT provides students-young and old-with a roadmap for success.

Search Based Software Engineering - Myra B. Cohen 2011-08-30
This book constitutes the refereed proceedings of the Third International Symposium on Search Based Software Engineering, SSBSE 2011 held in Szeged, Hungary in collocation with ESEC/FSE 2011. The 18 revised full papers presented together with two invited contributions and abstracts of eight poster presentations were carefully reviewed and selected from 43 submissions. The papers are organized in topical sections on foundations of SSBSE; concurrency and models; requirements and planning; software testing; and comprehension, transformation and scalability.

Beginning Azure Functions - Rahul Sawhney 2019-06-08
Create highly scalable apps and monitor Azure functions in production using Azure Functions 2.0. This book takes you through durable functions for statefulness and covers not only the basics, but also how to create bindings in durable functions. It is a deep dive into the Azure Functions serverless API and will guide you through the process of converting monolithic applications to use Azure functions. The author starts by giving an overview of serverless architecture and Azure functions

along with Azure App Services. You will then learn to create basic Azure functions using the Azure portal and Visual Studio. Next, you will create a serverless API using Azure Functions and migrate an existing application to Azure Functions. Finally, you will deploy an Azure function and monitor it in production. Here you will deploy the Azure function using ARM templates and secure and configure CORS for Azure functions. After reading this book, you will be able to understand Azure functions and create them using the Azure portal and Visual Studio. What You Will Learn Understand and use triggers and bindings in an Azure function Create a serverless API using Azure Functions and OpenAPI Deploy an Azure function and monitor it in production Understand durable Azure functions, including scalability, disaster recovery, and geo-distribution Who This Book Is ForDevelopers who want to get started with Azure Functions. DevOps will also find value in the guidance for deploying and monitoring functions.

Introduction to Biology: Cells - Garima Agarwal 2019-10-06
This book attempts to introduce little minds to the wonderful world of biology. Stimulate their curiosity in an easy and fun book which answers some basics questions about life. Especially in the young elementary school ages, kids have a lot of great questions about their world such as how does the sky hold up and how can I catch a rainbow. Even though this book doesn't exactly answer each of those specific questions, it does attempt to give them a teaser into the world of cells and help them appreciate the complexity of the living world. What differentiates a living and non-living things, what is the source of life and what is the extra-ordinary operation that runs inside a living thing - are just a few of the questions that should get them on the path for scientific exploration from a young age.This book can be a great night-time read, great gift for the little avid reader in your life.

Powerful Teaching - Pooja K. Agarwal 2019-05-13
Unleash powerful teaching and the science of learning in your classroom Powerful Teaching: Unleash the Science of Learning empowers educators to harness rigorous research on how students learn and unleash it in their classrooms. In this book, cognitive scientist Pooja K. Agarwal, Ph.D., and veteran K–12 teacher Patrice M. Bain, Ed.S., decipher cognitive science research and illustrate ways to successfully apply the science of learning in classrooms settings. This practical resource is filled with evidence-based strategies that are easily implemented in less than a minute—without additional prepping, grading, or funding! Research demonstrates that these powerful strategies raise student achievement by a letter grade or more; boost learning for diverse students, grade levels, and subject areas; and enhance students' higher order learning and transfer of knowledge beyond the classroom. Drawing on a fifteen-year scientist-teacher collaboration, more than 100 years of research on learning, and rich experiences from educators in K–12 and higher education, the authors present highly accessible step-by-step guidance on how to transform teaching with four essential strategies: Retrieval practice, spacing, interleaving, and feedback-driven metacognition. With Powerful Teaching, you will: Develop a deep understanding of powerful teaching strategies based on the science of learning Gain insight from real-world examples of how evidence-based strategies are being implemented in a variety of academic settings Think critically about your current teaching practices from a research-based perspective Develop tools to share the science of learning with students and parents, ensuring success inside and outside the classroom Powerful Teaching: Unleash the Science of Learning is an indispensable resource for educators who want to take their instruction to the next level. Equipped with scientific knowledge and evidence-based tools, turn your teaching into powerful teaching and unleash student learning in your classroom.

Java in depth - Sarika Agarwal 2017-11-01
Providing comprehensive coverage of all the concepts of Core Java, this user-friendly book adopts a simple language, crystal clear approach, and a straightforward comprehensible presentation supported by several examples and self-explanatory analogies. --

Computational Intelligence in Software Modeling - Vishal Jain 2022-03-07
Researchers, academicians and professionals

expone in this book their research in the application of intelligent computing techniques to software engineering. As software systems are becoming larger and complex, software engineering tasks become inc

The Girl in the Dream: A Love Story planned 500 years ag - Pravin Agarwal 2020-03-01
2017, Los Angeles - Vivaan, a NASA scientist has a strange recurring dream of a mysterious girl. His engagement with Riya turns into a nightmare when his dream starts turning into reality. He flies to Madhya Pradesh to find himself at the center of a 500-years-old enigma. 1500 AD, Kingdom of Ujjain - Shrinika is heartbroken when she is betrayed by Rudra, the king of Ujjain. After the unfortunate incident, she mysteriously disappeared. 2017, Madhya Pradesh - Dhiren, the evil son of the village sarpanch is in desperate search of the ancient Statue of Lord Shiva which is hidden somewhere in Shivgarh Fort and worth a billion dollars. 2011, MNIT Jaipur - Rachit fall head over heels in love with Swara when he is asked to propose to her, as a ragging prank, by his seniors. What links Rachit and Swara to the complex puzzle of Vivaan's dream? What is the secret of the ancient Shiva temple? What connects Vivaan to Shrinika, the missing girl in the 16th century? Read on as you travel through a saga of love and passion, betrayal and conspiracy, hope and ambition.

Fundamentals of Computer - Mr. Saurabh Agarwal 2020-08-10
Fundamentals of Computer by Saurabh Agrawal is a publication of the SBPD Publishing House, Agra. In the present time, the Computer is an integral part of our lives. Much of the work we do now involves computers in one way or the other. Thanks to this piece of machinery, the world has shrunk into a global village. It gives the author great pleasure in presenting the First Edition of this book Fundamentals of Computer in the hands of students and their esteemed Professors. The present book targets to meet in full measure the requirements of students preparing for B.B.A., B.Com. and other Professional Courses of various Indian Universities. Salient features of this book are as follows- 1. The motto of this book is to provide the easy and obvious understanding of the subject to the students. 2. Every best effort has been made to include the questions asked in various examinations in different years. 3. The subject matter of this book is prepared scientifically and analytically. 4. Volume of the book and size of different topics have been kept keeping in view to meet out the need for examinations.

Engineering Chemistry - Shikha Agarwal 2019-05-23
Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.

Analysis and Performance of Fiber Composites - Bhagwan D. Agarwal 1990-10-08
Having fully established themselves as workable engineering materials, composite materials are now increasingly commonplace around the world. Serves as both a text and reference guide to the behavior of composite materials in different engineering applications. Revised for this Second Edition, the text includes a general discussion of composites as material, practical aspects of design and performance, and further analysis that will be helpful to those engaged in research on composites. Each chapter closes with references for further reading and a set of problems that will be useful in developing a better understanding of the subject.

Collaborative Software Engineering - Ivan Mistrík 2010-03-10
Collaboration among individuals – from users to developers – is central to modern software engineering. It takes many forms: joint activity to solve common problems, negotiation to resolve conflicts, creation of shared definitions, and both social and technical perspectives impacting all software development activity. The difficulties of collaboration are also well documented. The grand challenge is not only to ensure that developers in a team deliver effectively as individuals, but that the whole team delivers more than just the sum of its parts. The editors of this book have assembled an impressive selection of authors, who have contributed to an authoritative body of work tackling a wide range of issues in the field of collaborative software engineering. The resulting volume is divided into four parts, preceded by a general editorial chapter providing a more detailed review of the domain of collaborative software engineering. Part 1 is

on "Characterizing Collaborative Software Engineering", Part 2 examines various "Tools and Techniques", Part 3 addresses organizational issues, and finally Part 4 contains four examples of "Emerging Issues in Collaborative Software Engineering". As a result, this book delivers a comprehensive state-of-the-art overview and empirical results for researchers in academia and industry in areas like software process management, empirical software engineering, and global software development. Practitioners working in this area will also appreciate the detailed descriptions and reports which can often be used as guidelines to improve their daily work.

Advances in Computer and Information Sciences and Engineering - Tarek Sobh 2008-08-15 Advances in Computer and Information Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Advances in Computer and Information Sciences and Engineering includes selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2007) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

Deep Learning in Gaming and Animations - Vikas Chaudhary 2021-12-08 Over the last decade, progress in deep learning has had a profound and transformational effect on many complex problems, including speech recognition, machine translation, natural language understanding, and computer vision. As a result, computers can now achieve human-competitive performance in a wide range of perception and recognition tasks. Many of these systems are now available to the programmer via a range of so-called cognitive services. More recently, deep reinforcement learning has achieved ground-breaking success in several complex challenges. This book makes an enormous contribution to this beautiful, vibrant area of study: an area that is developing rapidly both in breadth and depth. Deep learning can cope with a broader range of tasks (and perform those tasks to increasing levels of excellence). This book lays a good foundation for the core concepts and principles of deep learning in gaming and animation, walking you through the fundamental ideas with expert ease. This book progresses in a step-by-step manner. It reinforces theory with a full-fledged pedagogy designed to enhance students' understanding and offer them a practical insight into its applications. Also, some chapters introduce and cover novel ideas about how artificial intelligence (AI), deep learning, and machine learning have changed the world in gaming and animation. It gives us the idea that AI can also be applied in gaming, and there are limited textbooks in this area. This book comprehensively addresses all the aspects of AI and deep learning in gaming. Also, each chapter follows a similar structure so that students, teachers, and industry experts can orientate themselves within the text. There are few books in the field of gaming using AI. Deep Learning in Gaming and Animations teaches you how to apply the power of deep learning to build complex reasoning tasks. After being exposed to the foundations of machine and deep learning, you will use Python to build a bot and then teach it the game's rules. This book also focuses on how different technologies have revolutionized gaming and animation with various illustrations.

Fundamental Approaches to Software Engineering - Marsha Chechik 2009-03-28 This book constitutes the refereed proceedings of the 12th International Conference on Fundamental Approaches to Software Engineering, FASE 2009, held in York, UK, in March 2009, as part of ETAPS 2009, the European Joint Conferences on Theory and Practice of Software. The 30 revised full papers presented together with 2 tool demonstrations were carefully reviewed and selected from 123 regluar and 9 tool paper submissions. The topics addressed are model-driven development, synthesis and adaptation, modeling, testing and debugging, model analysis, patterns, security, queries and error handling, and tools (demos) and program analysis.

Outlier Analysis - Charu C. Aggarwal 2016-12-10 This book provides comprehensive coverage of the field of outlier analysis from a computer

science point of view. It integrates methods from data mining, machine learning, and statistics within the computational framework and therefore appeals to multiple communities. The chapters of this book can be organized into three categories: Basic algorithms: Chapters 1 through 7 discuss the fundamental algorithms for outlier analysis, including probabilistic and statistical methods, linear methods, proximity-based methods, high-dimensional (subspace) methods, ensemble methods, and supervised methods. Domain-specific methods: Chapters 8 through 12 discuss outlier detection algorithms for various domains of data, such as text, categorical data, time-series data, discrete sequence data, spatial data, and network data. Applications: Chapter 13 is devoted to various applications of outlier analysis. Some guidance is also provided for the practitioner. The second edition of this book is more detailed and is written to appeal to both researchers and practitioners. Significant new material has been added on topics such as kernel methods, one-class support-vector machines, matrix factorization, neural networks, outlier ensembles, time-series methods, and subspace methods. It is written as a textbook and can be used for classroom teaching.

Designing, Engineering, and Analyzing Reliable and Efficient Software - Singh, Hardeep 2013-02-28
Due to the role of software systems in safety-critical applications and in the satisfaction of customers and organizations, the development of efficient software engineering is essential. Designing, Engineering, and Analyzing Reliable and Efficient Software discusses and analyzes various designs, systems, and advancements in software engineering. With its coverage on the integration of mathematics, computer science, and practices in engineering, this book highlights the importance of ensuring and maintaining reliable software and is an essential resource for practitioners, professors and students in these fields of study.

Software Engineering Approaches for Offshore and Outsourced Development - Bertrand Meyer 2007-09-22
This book constitutes the thoroughly refereed post-proceedings of the First International Conference on Software Engineering Approaches for Offshore and Outsourced

Development, SEAFOOD 2007, Zurich, Switzerland, in February 2007. The 15 revised full papers constitute a balanced mix of academic and industrial aspects and address topical regions such as processes, education, country reports, evaluation and assessment, communication and distribution, as well as tools.

Strategic Software Engineering - Fadi P. Deek 2005-05-26
The pervasiveness of software in business makes it crucial that software engineers and developers understand how software development impacts an entire organization. Strategic Software Engineering: An Interdisciplinary Approach presents software engineering as a strategic, business-oriented, interdisciplinary endeavor, rather than simply a technical process, as it has been described in previous publications. The book addresses technical, scientific, and management aspects of software development in a way that is accessible to a wide audience. It provides a detailed, critical review of software development models and processes, followed with a strategic assessment of how process models evolved over time and how to improve them. The authors then focus on the relation between problem-solving techniques and strategies for effectively confronting real-world business problems. They also analyze the impact of interdisciplinary factors on software development, including the role of people and business economics. The book concludes with a brief look at specialized system development. The diverse backgrounds of the authors, encompassing computer science, information systems, technology, and business management, help create this book's integrated approach, which answers the demand for a comprehensive, interdisciplinary outlook encompassing all facets of how software relates to an organization.

Industrial And Engineering Applications Of Artificial Intelligence And Expert Systems - Moonis Ali

Software Engineering -

Lean and Agile Software Development - Adam Przybyłek 2022
This book constitutes the proceedings of the 6th International Conference on Lean and Agile Software Development, LASD 2022, which was

held online on January 22, 2022. The conference received a total of 29 submissions, of which 9 full papers, 1 short paper and 1 position paper are included in this volume. In addition, the volume contains one keynote paper in full paper length. Topics discussed in this volume cover various aspects of agile software development and range from agile testing, to agile effort estimation, an agile approach to model-driven development, and remotely working agile teams.

Modern Software Engineering Concepts and Practices: Advanced Approaches - Dogru, Ali H. 2010-12-31
Software engineering has advanced rapidly in recent years in parallel with the complexity and scale of software systems. New requirements in software systems yield innovative approaches that are developed either through introducing new paradigms or extending the capabilities of well-established approaches. Modern Software Engineering Concepts and Practices: Advanced Approaches provides emerging theoretical approaches and their practices. This book includes case studies and real-world practices and presents a range of advanced approaches to reflect various perspectives in the discipline.

Deep Learning Techniques for Biomedical and Health Informatics - Basant Agarwal 2020-01-14
Deep Learning Techniques for Biomedical and Health Informatics provides readers with the state-of-the-art in deep learning-based methods for biomedical and health informatics. The book covers not only the best-performing methods, it also presents implementation methods. The book includes all the prerequisite methodologies in each chapter so that new researchers and practitioners will find it very useful. Chapters go from basic methodology to advanced methods, including detailed descriptions of proposed approaches and comprehensive critical discussions on experimental results and how they are applied to Biomedical Engineering, Electronic Health Records, and medical image processing. Examines a wide range of Deep Learning applications for Biomedical Engineering and Health Informatics, including Deep Learning for drug discovery, clinical decision support systems, disease diagnosis, prediction and monitoring Discusses Deep Learning applied to Electronic Health Records (EHR), including health data structures and management, deep patient similarity learning, natural language processing, and how to improve clinical decision-making Provides detailed coverage of Deep Learning for medical image processing, including optimizing medical big data, brain image analysis, brain tumor segmentation in MRI imaging, and the future of biomedical image analysis

Software Engineering - K.K. Aggarwal 2005
This Book Is Designed As A Textbook For The First Course In Software Engineering For Undergraduate And Postgraduate Students. This May Also Be Helpful For Software Professionals To Help Them Practice The Software Engineering Concepts.The Second Edition Is An Attempt To Bridge The Gap Between What Is Taught In The Classroom And What Is Practiced In The Industry . The Concepts Are Discussed With The Help Of Real Life Examples And Numerical Problems.This Book Explains The Basic Principles Of Software Engineering In A Clear And Systematic Manner. A Contemporary Approach Is Adopted Throughout The Book. After Introducing The Fundamental Concepts, The Book Presents A Detailed Discussion Of Software Requirements Analysis & Specifications. Various Norms And Models Of Software Project Planning Are Discussed Next, Followed By A Comprehensive Account Of Software Metrics.Suitable Examples, Illustrations, Exercises, Multiple Choice Questions And Answers Are Included Throughout The Book To Facilitate An Easier Understanding Of The Subject.

Software Engineering - Udit Agarwal 2012

Software Engineering - Bharat Bhushan Agarwal 2009

Foundations of Analog and Digital Electronic Circuits - Anant Agarwal 2005-07-01
Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in

general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Neural Networks and Deep Learning - Charu C. Aggarwal 2018-08-25
This book covers both classical and modern models in deep learning. The primary focus is on the theory and algorithms of deep learning. The theory and algorithms of neural networks are particularly important for understanding important concepts, so that one can understand the important design concepts of neural architectures in different applications. Why do neural networks work? When do they work better than off-the-shelf machine-learning models? When is depth useful? Why is training neural networks so hard? What are the pitfalls? The book is also rich in discussing different applications in order to give the practitioner a flavor of how neural architectures are designed for different types of problems. Applications associated with many different areas like recommender systems, machine translation, image captioning, image classification, reinforcement-learning based gaming, and text analytics are covered. The chapters of this book span three categories: The basics of neural networks: Many traditional machine learning models can be understood as special cases of neural networks. An emphasis is placed in the first two chapters on understanding the relationship between traditional machine learning and neural networks. Support vector machines, linear/logistic regression, singular value decomposition, matrix factorization, and

recommender systems are shown to be special cases of neural networks. These methods are studied together with recent feature engineering methods like word2vec. Fundamentals of neural networks: A detailed discussion of training and regularization is provided in Chapters 3 and 4. Chapters 5 and 6 present radial-basis function (RBF) networks and restricted Boltzmann machines. Advanced topics in neural networks: Chapters 7 and 8 discuss recurrent neural networks and convolutional neural networks. Several advanced topics like deep reinforcement learning, neural Turing machines, Kohonen self-organizing maps, and generative adversarial networks are introduced in Chapters 9 and 10. The book is written for graduate students, researchers, and practitioners. Numerous exercises are available along with a solution manual to aid in classroom teaching. Where possible, an application-centric view is highlighted in order to provide an understanding of the practical uses of each class of techniques.

Research Anthology on Recent Trends, Tools, and Implications of Computer Programming - Management Association, Information Resources 2020-08-03
Programming has become a significant part of connecting theoretical development and scientific application computation. Computer programs and processes that take into account the goals and needs of the user meet with the greatest success, so it behooves software engineers to consider the human element inherent in every line of code they write. Research Anthology on Recent Trends, Tools, and Implications of Computer Programming is a vital reference source that examines the latest scholarly material on trends, techniques, and uses of various programming applications and examines the benefits and challenges of these computational developments. Highlighting a range of topics such as coding standards, software engineering, and computer systems development, this multi-volume book is ideally designed for programmers, computer scientists, software developers, analysts, security experts, IoT software programmers, computer and software engineers, students, professionals, and researchers.

Hardware and Software, Verification and Testing - Shmuel Ur 2006-03-03

This book constitutes the refereed post-proceedings of the First International Conference on Hardware Verification, Software Testing, and PADTAD held in November 2005. The conference combines the sixth IBM Verification Workshop, the fourth IBM Software Testing Workshop, and the third PADTAD (Parallel and Distributed Systems: Testing and Debugging) Workshop. The 14 revised full papers presented together with three invited contributions were carefully reviewed and selected from 31 submissions. The papers address all current issues in hardware/software verification, software testing, and testing of parallel and concurrent applications.

Low-Power Electronics Design - Christian Piguet 2018-10-03
The power consumption of integrated circuits is one of the most problematic considerations affecting the design of high-performance chips and portable devices. The study of power-saving design methodologies now must also include subjects such as systems on chips, embedded software, and the future of microelectronics. Low-Power Electronics Design covers all major aspects of low-power design of ICs in deep submicron technologies and addresses emerging topics related to future design. This volume explores, in individual chapters written by expert authors, the many low-power techniques born during the past decade. It also discusses the many different domains and disciplines that impact power consumption, including processors, complex circuits, software, CAD tools, and energy sources and management. The authors delve into what many specialists predict about the future by presenting techniques that are promising but are not yet reality. They investigate nanotechnologies, optical circuits, ad hoc networks, e-textiles, as well as human powered sources of energy. Low-Power Electronics Design delivers a complete picture of today's methods for reducing power, and also illustrates the advances in chip design that may be commonplace 10 or 15 years from now.

Software Engineering and Testing - B. B. Agarwal 2010
This book is designed for use as an introductory software engineering course or as a reference for programmers. Up-to-date text uses both theory applications to design reliable, error-free software. Includes a companion CD-ROM with source code third-party software engineering applications.

Software Engineering and Algorithms - Radek Silhavy 2021-07-19
This book constitutes the refereed proceedings of the Software Engineering and Algorithms section of the 10th Computer Science On-line Conference 2021 (CSOC 2021), held on-line in April 2021. Software engineering research and its applications to intelligent algorithms take an essential role in computer science research. In this book, modern research methods, application of machine and statistical learning in the software engineering research are presented.

Software Engineering Application in Informatics - Radek Silhavy 2021-11-16
This book constitutes the first part of refereed proceedings of the 5th Computational Methods in Systems and Software 2021 (CoMeSySo 2021). The CoMeSySo 2021 Conference is breaking the barriers, being held online. CoMeSySo 2021 intends to provide an international forum for the discussion of the latest high-quality research results. The software engineering, computer science, and artificial intelligence are crucial topics for the research within an intelligent systems problem domain.

End-User Computing, Development, and Software Engineering: New Challenges - Dwivedi, Ashish 2012-02-29
"This book explores the implementation of organizational and end user computing initiatives and provides foundational research to further the understanding of this discipline and its related fields"--Provided by publisher.

Software Engineering - K. K. Aggarwal 2008-01-01

Modern DevOps Practices - Gaurav Agarwal 2021-09-13
Enhance DevOps workflows by integrating the functionalities of Docker, Kubernetes, Spinnaker, Ansible, Terraform, Flux CD, CaaS, and more with the help of practical examples and expert tips Key FeaturesGet up and running with containerization-as-a-service and infrastructure automation in the public cloudLearn container security techniques and secret management with Cloud KMS, Anchore Grype, and Grafeas KritisLeverage the

combination of DevOps, GitOps, and automation to continuously ship a package of softwareBook Description Containers have entirely changed how developers and end-users see applications as a whole. With this book, you'll learn all about containers, their architecture and benefits, and how to implement them within your development lifecycle. You'll discover how you can transition from the traditional world of virtual machines and adopt modern ways of using DevOps to ship a package of software continuously. Starting with a quick refresher on the core concepts of containers, you'll move on to study the architectural concepts to implement modern ways of application development. You'll cover topics around Docker, Kubernetes, Ansible, Terraform, Packer, and other similar tools that will help you to build a base. As you advance, the book covers the core elements of cloud integration (AWS ECS, GKE, and other CaaS services), continuous integration, and continuous delivery (GitHub actions, Jenkins, and Spinnaker) to help you understand the essence of container management and delivery. The later sections of the book will take you through container pipeline security and GitOps (Flux CD and Terraform). By the end of this DevOps book, you'll have learned best practices for automating your development lifecycle and making the most of containers, infrastructure automation, and CaaS, and be ready to develop applications using modern tools and techniques. What you will learnBecome well-versed with AWS ECS, Google Cloud Run, and KnativeDiscover how to build and manage secure Docker images efficientlyUnderstand continuous integration with Jenkins on Kubernetes and GitHub actionsGet to grips with using Spinnaker for continuous deployment/deliveryManage immutable infrastructure on the cloud with Packer, Terraform, and AnsibleExplore the world of GitOps with GitHub actions, Terraform, and Flux CDWho this book is for If you are a software engineer, system administrator, or operations engineer looking to step into the world of DevOps within public cloud platforms, this book is for you. Existing DevOps engineers will also find this book useful as it covers best practices, tips, and tricks to implement DevOps with a cloud-native mindset. Although no containerization experience is necessary, a basic understanding of the software development life cycle and delivery will help you get the most out of the book.

Engines and Fuels for Future Transport - Gautam Kalghatgi 2021-12-13
This book focuses on clean transport and mobility essential to the modern world. It discusses internal combustion engines (ICEs) and alternatives like battery electric vehicles (BEVs) which are growing fast. Alternatives to ICEs start from a very low base and face formidable environmental, material availability, and economic challenges to unlimited and rapid growth. Hence ICEs will continue to be the main power source for transport for decades to come and have to be continuously improved to improve transport sustainability. The book highlights the need to assess proposed changes in the existing transport system on a life cycle basis. The volume includes chapters discussing the challenges faced by ICEs as well as chapters on novel fuels and fuel/ engine interactions which help in this quest to improve the efficiency of ICE and reduce exhaust pollutants. This book will be of interest to those in academia and industry alike.