

Practical Monitoring Effective Strategies For The Real World

Designed as a “how-to” manual, Practical Preservation and Conservation Strategies for Libraries provides librarians with practical information to help them grapple with specific preservation challenges by identifying areas of concern, optimizing the use of resources put towards preservation, and establishing goals for continual improvement over time. Straightforward and pragmatic, it helps a library to reduce immediate and long-term preservation costs, and strengthen a library’s collection development goals. Topics include: Preservation in the digital age Establishing long-term preservation goals Environmental conditions Preservation needs of specific collections Understanding use patterns for library materials Identifying potential threats to a collection Recognizing readily available preservation resources Almost 50 photographs, figures, checklists, and other tools make this a practical guide libraries will use on a day-to-day basis.

Get up to speed with Prometheus, the metrics-based monitoring system used by tens of thousands of organizations in production. This practical guide provides application developers, sysadmins, and DevOps practitioners with a hands-on introduction to the most important aspects of Prometheus, including dashboarding and alerting, direct code instrumentation, and metric collection from third-party systems with exporters. This open source system has gained popularity over the past few years for good reason. With its simple yet powerful data model and query language, Prometheus does one thing, and it does it well. Author and Prometheus developer Brian Brazil guides you through Prometheus setup, the Node exporter, and the Alertmanager, then demonstrates how to use them for application and infrastructure monitoring. Know where and how much to apply instrumentation to your application code Identify metrics with labels using unique key-value pairs Get an introduction to Grafana, a popular tool for building dashboards Learn how to use the Node Exporter to monitor your infrastructure Use service discovery to provide different views of your machines and services Use Prometheus with Kubernetes and examine exporters you can use with containers Convert data from other monitoring systems into the Prometheus format

Published in 1991, the first edition of The Practical Handbook of Ground-Water Monitoring quickly became the gold standard reference on the topic of ground-water monitoring. But, as in all rapidly evolving fields, regulations change, technology advances, methods improve, and research reveals flaws in prior thinking. As a consequence, books that document the state of the science, even widely acknowledged definitive works, become outdated and need to be rewritten periodically to stay current. Reflecting this and renamed to highlight its wider scope, The Practical Handbook of Environmental Site Characterization and Ground-Water Monitoring, Second Edition provides an updated look at the field. Completely revised, the book contains so much new information that it has doubled in size. Containing the most up-to-date information available, this second edition emphasizes the practical application of current technology. It covers environmental site characterization and ground-water monitoring in great detail, from the federal regulations that govern environmental investigations, to the various direct and indirect methods of investigating and monitoring the subsurface, to the analysis and interpretation of complex sets of environmental data. Cheaper, better, faster was

the mantra of the 1990s, resulting in more streamlined approaches to both environmental site characterization and ground-water monitoring, but also pitting the application of good science against the mandate to get a project done as quickly and inexpensively as possible. This book provides unbiased, technical discussions of the tremendously powerful tools developed in the last decade, helping environmental professionals strike a balance between good science and economics.

In an increasingly scientific and technological world the need for a knowledgeable citizenry, individuals who understand the fundamentals of technological ideas and think critically about these issues, has never been greater. There is growing appreciation across the broader education community that educational three dimensional virtual learning environments are part of the daily lives of citizens, not only regularly occurring in schools and in after-school programs, but also in informal settings like museums, science centers, zoos and aquariums, at home with family, in the workplace, during leisure time when children and adults participate in community-based activities. This blurring of the boundaries of where, when, why, how and with whom people learn, along with better understandings of learning as a personally constructed, life-long process of making meaning and shaping identity, has initiated a growing awareness in the field that the questions and frameworks guiding assessing these environments should be reconsidered in light of these new realities. The audience for this book will be researchers working in the Serious Games arena along with distance education instructors and administrators and students on the cutting edge of assessment in computer generated environments.

This thoroughly updated new edition of the classic practical textbook provides a user-friendly, authoritative guide to evaluation of common cardiovascular symptoms and evaluation and management of common cardiovascular conditions. Coverage also includes clinical challenges such as management of chronic anticoagulation, assessing and minimizing cardiac risk in noncardiac surgery, and management of the cardiac surgery patient. Numerous tables and algorithms help readers find information quickly and aid in clinical decision-making. Practical Cardiology, Evaluation and Treatment of Common Cardiovascular Disorders reflects the current American College of Cardiology/American Heart Association guidelines and provides a concise yet comprehensive handbook presents practical information on the common cardiovascular problems that clinicians encounter daily.

Haemonchus Contortus and Haemonchosis – Past, Present and Future Trends, the latest in the Advances in Parasitology series first published in 1963, contains comprehensive and up-to-date reviews on all areas of interest in contemporary parasitology. The series includes medical studies of parasites of major influence, such as Plasmodium falciparum and trypanosomes. The series also contains reviews of more traditional areas, such as zoology, taxonomy, and life history, which help to shape current thinking and applications. The 2014 impact factor is 6.226. Informs and updates on all the latest developments in the field of parasitology Contains contributions from leading authorities and industry experts

First Published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

Accessible and comprehensive, this book shows how to build a schoolwide multi-tiered system of support (MTSS) from the ground up. The MTSS framework encompasses tiered systems such as response to intervention (RTI) and positive behavioral

interventions and supports (PBIS), and is designed to help all K-12 students succeed. Every component of an MTSS is discussed: effective instruction, the role of school teams, implementation in action, assessment, problem solving, and data-based decision making. Practitioner-friendly features include reflections from experienced implementers and an extended case study.

Reproducible checklists and forms can be downloaded and printed in a convenient 8 1/2" x 11" size.

Macedonia Investment and Business Guide Volume 1 Strategic and Practical Information

This book discusses the most important practical aspects involved in providing multidisciplinary Adolescent and Young Adult (AYA) services for cancer patients. It draws on international experience in several continents of establishing and running such services and provides a contemporary, practical approach to AYA care based on accumulated experience. It is of interest to those establishing or seeking to improve AYA services as well as those already caring for AYA cancer patients. Among topics discussed are incidence trends and treatment pathways, access to clinical trials for adolescents, transition from pediatric to adult services, psychological support and social care as well as survivorship and fertility. This book is of value of those establishing new services, those developing an existing service and those whose work includes the care of AYA patients. It is an important companion for pediatricians, oncologists as well as other medical, nursing and allied health professionals caring for Adolescents and Young Adults with cancer.

With the national push towards inclusion, more students with disabilities are being placed in general education settings.

Furthermore, when placed, more students with disabilities are entering social studies classrooms than any other content area.

Classroom teachers are being asked to “reach and teach” all students, often with little support. There are numerous texts on the teaching of social studies, an equal number on teaching students with disabilities. Blending best practice in social studies and special education instruction, this book provides both pre – and in-service educators simple, practical strategies that support the creation of engaging, relevant, and appropriate social studies opportunities for all students. Though the strategies presented are useful for all students, they are particularly beneficial for students with disabilities. From Universal Design for Learning, mnemonics, graphic organizers, and big ideas, to co-teaching, screen readers and the Virtual History Museum, this book offers hands-on, practical ideas general educators can use when teaching K-12 social studies in inclusive classrooms.

Practical and rich in resources, this book provides a roadmap to monitoring, evaluating, and implementing effective literacy instruction in grades PK-12. Designed for district and school leaders as well as literacy coaches and consultants, this book contains all the strategies, guidance, and tools you’ll need to monitor the effectiveness of literacy instruction in your school or system. Top literacy experts Angela Peery and Tracey Shiel share concise, well-researched information about how to identify enriched literacy environments, what constitutes well-designed literacy lessons, and the components of effective literacy programs at each grade level. Chapters cover reading, writing, speaking and listening, as well as collaboration, technology, and more, and offer adaptable strategies for different environments. Tools such as checklists and conversation frames are included to help busy leaders and administrators effectively monitor literacy instruction and provide constructive, thorough feedback to teachers. Each

chapter features: Check-Up Tools to review documents and observe instruction Check-In Tools to guide your conversations and feedback given to teachers Reflective Questions for system and school leaders and instructional coaches.

Organizations big and small have started to realize just how crucial system and application reliability is to their business. They've also learned just how difficult it is to maintain that reliability while iterating at the speed demanded by the marketplace. Site Reliability Engineering (SRE) is a proven approach to this challenge. SRE is a large and rich topic to discuss. Google led the way with Site Reliability Engineering, the wildly successful O'Reilly book that described Google's creation of the discipline and the implementation that's allowed them to operate at a planetary scale. Inspired by that earlier work, this book explores a very different part of the SRE space. The more than two dozen chapters in Seeking SRE bring you into some of the important conversations going on in the SRE world right now. Listen as engineers and other leaders in the field discuss: Different ways of implementing SRE and SRE principles in a wide variety of settings How SRE relates to other approaches such as DevOps Specialties on the cutting edge that will soon be commonplace in SRE Best practices and technologies that make practicing SRE easier The important but rarely explored human side of SRE David N. Blank-Edelman is the book's curator and editor.

A hands-on and introductory guide to the art of modern application and infrastructure monitoring and metrics. We start small and then build on what you learn to scale out to multi-site, multi-tier applications. The book is written for both developers and sysadmins. We focus on building monitored and measurable applications. We also use tools that are designed to handle the challenges of managing Cloud, containerised and distributed applications and infrastructure. In the book we'll deliver:

- * An introduction to monitoring, metrics and measurement.
- * A scalable framework for monitoring hosts (including Docker and containers), services and applications built on top of the Riemann event stream processor.
- * Graphing and metric storage using Graphite and Grafana.
- * Logging with Logstash.
- * A framework for high quality and useful notifications
- * Techniques for developing and building monitorable applications
- * A capstone that puts all the pieces together to monitor a multi-tier application.

Do you have a nagging feeling that your monitoring needs improvement, but you just aren't sure where to start or how to do it? Are you plagued by constant, meaningless alerts? Does your monitoring system routinely miss real problems? This is the book for you. Mike Julian lays out a practical approach to designing and implementing effective monitoring—from your enterprise application down to the hardware in a datacenter, and everything between. Practical Monitoring provides you with straightforward strategies and tactics for designing and implementing a strong monitoring foundation for your company. This book takes a unique vendor-neutral approach to monitoring. Rather than discuss how to implement specific tools, Mike teaches the principles and underlying mechanics behind monitoring so you can implement the lessons in any tool. Practical Monitoring covers essential topics including: Monitoring antipatterns Principles of monitoring design How to build an effective on-call rotation Getting metrics and logs out of your application

Nonclinical Study Contracting and Monitoring: A Practical Guide offers a systematic and straightforward handbook for obtaining high quality preclinical Good Laboratory Practice (GLP) studies. This book is full of real-world examples, processes, procedures,

useful templates, checklists and sample reports to provide readers with a better understanding of exactly what happens during all stages of a GLP study and the critical aspects of GLP study design and conduct. Designed for both the novice and experienced scientist, this book covers the GLP regulations and how they impact preclinical studies, the differences between GLP, non-GLP and peer-reviewed studies, preclinical GLP study design, laboratory selection, contracts and business ethics, how to obtain test material for the study, animal sourcing and release for study, preparation of a draft report and much more. By illustrating the overall big picture and tying it together with the individual steps, this book is an essential resource to help scientists ensure a high quality GLP study that passes both scientific and regulatory scrutiny. Includes both the "big picture" look at complex processes, such as contracting toxicology and safety studies with CROs, as well as a detailed account of each individual step. Contains several real world examples of problems in preclinical studies to provide you with an idea of the types of challenges that are routinely encountered and how this book can help you avoid these issues. Provides monitoring checklists through the book that will help you comply with each GLP requirement and maintain compliance throughout the entire process. Both entry level and experienced scientists involved in nonclinical toxicology study monitoring will benefit from the ideas, examples, discussions and strategies presented throughout this book.

This book takes a holistic view of the treatment of cardio-oncology patients, from evaluating those at high risk of developing cardiotoxicity, guidance for monitoring and managing patients during therapy to cardiac care of cancer survivors. Throughout, this book utilizes the latest research and guidance to offer advice on treatment strategy as well as practical elements of such as training, cardio-oncology nursing, patient education and how to establish a cardio-oncology unit. This book focuses on the practical knowledge and skills key to successful collaboration between cardiologists and oncologists to achieve the optimum cardiac care for cancer patients. Key Features Focuses on the practical elements of cardio-oncology care Outlines the importance and process of setting up a cardio-oncology unit and cardio-oncology fellowships Provides advice and guidance on the set up and common pitfalls of coordinating care for cardio-oncology patients Outlines current guidelines and potential future directions for the field of cardio-oncology

This Handbook provides a comprehensive ten-step model that will help guide development practitioners through the process of designing and building a results-based monitoring and evaluation system.

Building foundational whole-number knowledge can help put K-5 students on the path to academic success and career readiness. Filling a gap for school practitioners, this book presents step-by-step guidelines for designing and implementing classwide, small-group, and individual interventions for mathematics difficulties. Effective procedures for screening, assessment, intervention selection, and progress monitoring are described and illustrated with detailed case vignettes. User-friendly features include 20 reproducible handouts and forms; the print book has a large-size format with lay-flat binding for easy photocopying. Purchasers get access to a Web page where they can download and print the reproducible materials. This book is in The Guilford Practical Intervention in the Schools Series, edited by T. Chris Riley-Tillman.

Build Prometheus ecosystems with metric-centric visualization, alerting, and querying Key Features Integrate Prometheus with Alertmanager and Grafana for building a complete monitoring system Explore PromQL, Prometheus' functional query language, with easy-to-follow examples Learn how to deploy Prometheus components using Kubernetes and traditional instances Book Description Prometheus is an open source monitoring system. It provides a modern time series database, a robust query language, several metric visualization possibilities, and a reliable alerting solution for traditional and cloud-native infrastructure. This book covers the fundamental concepts of monitoring and explores Prometheus architecture, its data model, and how metric aggregation works. Multiple test environments are included to help explore different configuration scenarios, such as the use of various exporters and integrations. You'll delve into PromQL, supported by several examples, and then apply that knowledge to alerting and recording rules, as well as how to test them. After that, alert routing with Alertmanager and creating visualizations with Grafana is thoroughly covered. In addition, this book covers several service discovery mechanisms and even provides an example of how to create your own. Finally, you'll learn about Prometheus federation, cross-sharding aggregation, and also long-term storage with the help of Thanos. By the end of this book, you'll be able to implement and scale Prometheus as a full monitoring system on-premises, in cloud environments, in standalone instances, or using container orchestration with Kubernetes. What you will learn Grasp monitoring fundamentals and implement them using Prometheus Discover how to extract metrics from common infrastructure services Find out how to take full advantage of PromQL Design a highly available, resilient, and scalable Prometheus stack Explore the power of Kubernetes Prometheus Operator Understand concepts such as federation and cross-shard aggregation Unlock seamless global views and long-term retention in cloud-native apps with Thanos Who this book is for If you're a software developer, cloud administrator, site reliability engineer, DevOps enthusiast or system admin looking to set up a fail-safe monitoring and alerting system for sustaining infrastructure security and performance, this book is for you. Basic networking and infrastructure monitoring knowledge will help you understand the concepts covered in this book.

Although microorganisms can be found virtually anywhere on our planet, from clouds to soils to oceans, they are often poorly understood when examining issues related to groundwater and water wells. Focusing on the impact of microorganisms on groundwater and water wells, *Practical Manual of Groundwater Microbiology, Second Edition* presents over 75% new material to offer a comprehensive, up-to-date guide on the subject. The first eight chapters provide an overview of microbiology and its importance in groundwaters, exploring natural filters that develop around wells, various bacteria, molds, viruses, sampling procedures, biofouling, biofilms, sequestration strategies, rehabilitation/regeneration practices, and flooding risks. The book also contains a chapter that functions as a self-contained guide, with 79 descriptive illustrations of important concepts integral to the understanding of microbes in groundwater. Numerous appendices, some new to this edition, supply detailed information on more specialized topics, such as microbiological test methods, water sample protocols, regulatory considerations concerning the use of phosphorus in wells, and the application of vegetable oil to lubricate pumps. Chronicling the significant progress made in the field since the publication of its predecessor, this edition provides practical approaches for evaluating the effects of microorganisms and

their activities on groundwater and water wells.

With this practical book, you'll discover how to catch complications in your distributed system before they develop into costly problems. Based on his extensive experience in systems ops at large technology companies, author Slawek Ligus describes an effective data-driven approach for monitoring and alerting that enables you to maintain high availability and deliver a high quality of service. Learn methods for measuring state changes and data flow in your system, and set up alerts to help you recover quickly from problems when they do arise. If you're a system operator waging the daily battle to provide the best performance at the lowest cost, this book is for you. Monitor every component of your application stack, from the network to user experience Learn how to draw the right conclusions from the metrics you obtain Develop a robust alerting system that can identify problematic anomalies—without raising false alarms Address system failures by their impact on resource utilization and user experience Plan an alerting configuration that scales with your expanding network Learn how to choose appropriate maintenance times automatically Develop a work environment that fosters flexibility and adaptability

Practical Monitoring Effective Strategies for the Real World"O'Reilly Media, Inc."

Providing insider viewpoints and perspectives unavailable in any other text, this book presents useful guidelines and tools to produce effective coatings and films. Covering subjects ranging from materials selection and process development to successful system construction and optimization, it contains expanded discussions on design visualization,

Offers a practical guide for improving schools dramatically that will enable all students from all backgrounds to achieve at high levels. Includes assessment forms, an index, and a DVD.

Learn innovative strategies to design and measure effective classroom interventions. The author offers teachers, individualized education program coordinators, and administrators research-based strategies and tools to create and document highly individualized plans that support response to intervention efforts and IEPs. Each chapter includes examples and case studies of students representing various grade levels and needs.

The Maudsley Handbook of Practical Psychiatry has long served trainees in psychiatry, presenting them with practical and essential advice. This new edition of the orange book provides guidance on the psychiatric and neuropsychiatric examination and interviewing of adults and children not just as a central skill, but as the basis for reaching a diagnosis, formulation and defining a treatment plan. It covers special interview situations, such as dealing with specific patient reactions, and other special problems, for example, conducting a complicated assessment in cases of self-harm. The book concludes with important legal issues and is supported by helpful appendices for ready-reference. As with previous editions, this sixth edition has been revised and rewritten with the full and active involvement of a group of consultant psychiatrists and trainees, making it a highly relevant and practical handbook for all psychiatrists whether learning or refreshing their skills.

An introductory guide to drafting and implementing practical marketing strategies, this workbook introduces key concepts such as marketing a nonprofit organization and drawing up marketing plans.

A clear, hands-on outline of best practices for infection prevention that directly improve patient outcomes across the healthcare continuum.

Intended for developers and end-users, instructional manual and reference features case descriptions, examples, practical advice, clear descriptions of standards, user exercises, and quiz questions. (Computer Books)

“Because of its direct clinical applications, this is a good purchase for any neurological and neurosurgical library.” – Doody’s Reviews “I would certainly recommend [this book] to any technologist who monitors in the operating room.” – American Journal of Electroneurodiagnostic Technology This is a fundamental resource for physicians, technologists, and other health professionals who need to acquire state-of-the-art skills in neurophysiologic intraoperative monitoring (NIOM). It covers basic aspects of monitoring, describes the clinical and technical requirements for monitoring specific types of surgeries, and addresses the administrative aspects of running an NIOM service. The second edition has been updated to incorporate the vast amount of new information and techniques that have evolved since the publication of the first edition. This includes expanded coverage of each of the modalities used in monitoring (SEP, MEP, BAEP, EEG, and EMG) which are now discussed in individual chapters, training curriculum for neurophysiologists and technologists, policies and procedures for NIOM labs, and accreditation and certification. New applications and clinical innovations are interwoven throughout, and there is a completely new chapter on the use of NIOM in movement disorders surgery. Of value to practitioners at any level of experience, the book is now divided into three sections. The first section, Basic Principles, introduces the reader to the operating room environment, anesthetic considerations, and the various monitoring modalities. The second section, Clinical Methods, reviews the use of NIOM in specific types of surgeries. Many of these chapters are co-written by a neurophysiologist and technologist and present an overview of the particular surgery, relevant anatomy, monitoring modalities, data interpretation, warning criteria and technical considerations. A unique third section, Administrative Issues, has been added to this edition to address technical aspects of NIOM machines, remote monitoring, billing, ethical and legal issues, and training requirements for physicians and technologists. The final two chapters are devoted to setting up and maintaining an NIOM service and include sample policies and procedures. Key Features: Provides a wealth of current information on NIOM for day-to-day case management Covers all modalities and practical applications of NIOM for specific surgeries Contains detailed information on training, setup, billing, equipment, lab protocols, and running a service Appeals to NIOM providers at every level Combines the perspectives of physicians and technologists who together author surgical chapters Through handpicked cases from a variety of areas and business houses, this book illustrates how strategic management can be used to achieve better operational performance and strengthen their services by aligning business goals with performance measures.

The overwhelming majority of a software system’s lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google’s Site Reliability Team explain how and why their

commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

A comprehensive introduction to help you get up and running with creating interactive dashboards to visualize and monitor time-series data in no time Key Features Install, set up, and configure Grafana for real-time data analysis and visualization Visualize and monitor data using data sources such as InfluxDB, Prometheus, and Elasticsearch Explore Grafana's multi-cloud support with Microsoft Azure, Amazon CloudWatch, and Google Stackdriver Book Description Grafana is an open-source analytical platform used to analyze and monitoring time-series data. This beginner's guide will help you get to grips with Grafana's new features for querying, visualizing, and exploring metrics and logs no matter where they are stored. The book begins by showing you how to install and set up the Grafana server. You'll explore the working mechanism of various components of the Grafana interface along with its security features, and learn how to visualize and monitor data using, InfluxDB, Prometheus, Logstash, and Elasticsearch. This Grafana book covers the advanced features of the Graph panel and shows you how Stat, Table, Bar Gauge, and Text are used. You'll build dynamic dashboards to perform end-to-end analytics and label and organize dashboards into folders to make them easier to find. As you progress, the book delves into the administrative aspects of Grafana by creating alerts, setting permissions for teams, and implementing user authentication. Along with exploring Grafana's multi-cloud monitoring support, you'll also learn about Grafana Loki, which is a backend logger for users running Prometheus and Kubernetes. By the end of this book, you'll have gained all the knowledge you need to start building interactive dashboards. What you will learn Find out how to visualize data using Grafana Understand how to work with the major components of the Graph panel Explore mixed data sources, query inspector, and time interval settings Discover advanced dashboard features such as annotations, templating with variables, dashboard linking, and dashboard sharing techniques Connect user authentication to Google, GitHub, and a variety of external services Find out how Grafana can provide monitoring support for cloud service infrastructures Who this book is for This book is for business intelligence developers, business analysts, data analysts, and anyone interested in performing time-series data analysis and monitoring using Grafana. Those looking to create and share interactive dashboards or looking to get up to speed with the latest features of Grafana will also find this book useful. Although no prior knowledge of Grafana is required, basic knowledge of data visualization and some experience in Python programming will help you understand the concepts covered in the book.

"Collaborations that integrate diverse perspectives are critical to addressing many of our complex scientific and societal problems.

Yet those engaged in cross-disciplinary team science often face institutional barriers and collaborative challenges. *Strategies for Team Science Success* offers readers a comprehensive set of actionable strategies for reducing barriers and overcoming challenges and includes practical guidance for how to implement effective team science practices. More than 100 experts--including scientists, administrators, and funders from a wide range of disciplines and professions-- explain evidence-based principles, highlight state-of-the-art strategies, tools, and resources, and share first-person accounts of how they've applied them in their own successful team science initiatives. While many examples draw from cross-disciplinary team science initiatives in the health domain, the handbook is designed to be useful across all areas of science. *Strategies for Team Science Success* will inspire and enable readers to embrace cross-disciplinary team science, by articulating its value for accelerating scientific progress, and by providing practical strategies for success. Scientists, administrators, funders, and others engaged in team science will also leave equipped to develop new policies and practices needed to keep pace in our rapidly changing scientific landscape. Scholars across the Science of Team Science (SciTS), management, organizational, behavioral and social sciences, public health, philosophy, and information technology, among other areas of scholarship, will find inspiration for new research directions to continue advancing cross-disciplinary team science." -- Prové de l'editor.

Simple Network Management Protocol (SNMP) provides a "simple" set of operations that allows you to more easily monitor and manage network devices like routers, switches, servers, printers, and more. The information you can monitor with SNMP is wide-ranging--from standard items, like the amount of traffic flowing into an interface, to far more esoteric items, like the air temperature inside a router. In spite of its name, though, SNMP is not especially simple to learn. O'Reilly has answered the call for help with a practical introduction that shows how to install, configure, and manage SNMP. Written for network and system administrators, the book introduces the basics of SNMP and then offers a technical background on how to use it effectively. *Essential SNMP* explores both commercial and open source packages, and elements like OIDs, MIBs, community strings, and traps are covered in depth. The book contains five new chapters and various updates throughout. Other new topics include: Expanded coverage of SNMPv1, SNMPv2, and SNMPv3 Expanded coverage of SNMPc The concepts behind network management and change management RRDTool and Cricket The use of scripts for a variety of tasks How Java can be used to create SNMP applications Net-SNMP's Perl module The bulk of the book is devoted to discussing, with real examples, how to use SNMP for system and network administration tasks. Administrators will come away with ideas for writing scripts to help them manage their networks, create managed objects, and extend the operation of SNMP agents. Once demystified, SNMP is much more accessible. If you're looking for a way to more easily manage your network, look no further than *Essential SNMP*, 2nd Edition.

This book explores the meaning and role of "fair and reasoned discourse" in the context of our institutions for environmental decision processes. The book reviews the roles of our "environmental advocacy organizations"--such as The Sierra Club, The Audubon Society, the Environmental Defense Fund--in providing and ensuring that our discourse and decisions are fair and reasoned according to the criteria of being (i) inclusive of input from all affected, (ii) informed of relevant scientific and socio-

economic information, (iii) uncorrupted by direct conflicts of interest, and (iv) logical according robust review by uncorrupted judges. These organizations are described and examined as expressions of "collective imperfect duty," i.e. the coordinated duties with environmental direction. The current state of our discourse is examined in light of this fairness criteria, particularly in consideration of the cross-border problems that threaten tragedies of the global commons. Richard M. Robinson is Professor of Business at SUNY Fredonia, USA.

Ben is stuck. A development lead with a strong vision for how the intersection of development and operations at his office can be improved, he can't help but feel overwhelmed and discouraged by common problems such as slow turnaround time, rushed and ineffective handover documentation, mounting technical debt, and a lagging QA process. What steps should Ben take to build the momentum needed to create positive changes within his company? In this unique business novel by Dave Harrison and Knox Lively, two DevOps professionals with years of diverse experience in the industry, you follow Ben as he solves work frustrations in order to adopt Agile, DevOps, and microservices architectures for his organization. *Achieving DevOps* addresses the "Now what?" moment many DevOps professionals face on their journey. The story provides you with the knowledge you need to navigate the internal political waters, build management support, show measurable results, and bring DevOps successfully into your organization. Come away with practical lessons and timeless business concepts. You'll know how to effect change in a company from the bottom up, gain support, and instill a pattern of progressively building on success. Experience Ben's progress vicariously in *Achieving DevOps* and bridge the gap between inspiration and the implementation of your own DevOps practices. *Who This Book Is For* Those serving as change agents who are working to influence and move their organizations toward a DevOps approach to software development and deployment: those working to effect change from the bottom up such as development leads, QA leads, project managers, and individual developers; and IT directors, CTOs, and others at the top of an organization who are being asked to lend their support toward DevOps implementation efforts

New to the Practical Procedures in... series, *Practical Procedures in the Management of Tooth Wear* demonstrates a wide range of up to date clinical techniques in the practical management of tooth wear. Presented in an accessible and user-friendly format, the book summarises the key points of each procedure, complete with clinical photographs. Chapters outline the principles and procedures for each technique, offer clinical tips and advice, and include full references. Topics include patient assessment and diagnosis, treatment planning for localised and generalised tooth wear, the partially dentate patient, tooth wear monitoring, management, and maintenance. Created by an internationally-recognised team with both clinical and academic expertise, this valuable resource: Presents comprehensive, evidence-based coverage of the management of tooth wear Examines the epidemiology and etiology of tooth wear Covers practical aspects such as record taking, aesthetic evaluation, prevention, clinical occlusion and active monitoring Includes access to high quality instructional videos to further supplement the text. *Practical Procedures in the Management of Tooth Wear* is a unique source of information for general dental practitioners, senior undergraduate dental students, and postgraduates preparing for higher qualifications and training.

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