[eBooks] Practical Monitoring Effective Strategies For The Real World

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Practical Monitoring-Mike Julian 2017-10-26 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

Effective Monitoring and Alerting-Slawek Ligus 2012 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

Ten Steps to a Results-based Monitoring and Evaluation System-Jody Zall Kusek 2004-06-15 An effective state is essential to achieving socio-

economic and sustainable development. With the advent of globalization, there are growing pressures on governments and organizations around the world to be more responsive to the demands of internal and external stakeholders for good governance, accountability and transparency, greater development effectiveness, and delivery of tangible results. Governments, parliaments, citizens, the private sector, NGOs, civil society, international organizations and donors are among the stakeholders interested in better performance. As demands for greater accountability and real results have increased, there is an attendant need for enhanced results-based monitoring and evaluation of policies, programs, and projects. 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. These steps begin with a OC Readiness AssessmentOCO and take the practitioner through the design, management, and importantly, the sustainability of such systems. The Handbook describes each step in detail, the tasks needed to complete each one, and the tools available to help along the way."

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Nagios-David Josephsen 2013-03-27 The Fully Updated Guide to Enterprise Network Monitoring with Today's Nagios Platform and Tools This is the definitive guide to building cost-effective, enterprise-strength monitoring infrastructures with the latest commercial and open source versions of Nagios. World-renowned monitoring expert David Josephsen covers the entire monitoring software stack, treating Nagios as a specification language and foundation for building well designed monitoring systems that can scale to serve any organization. Drawing on his unsurpassed experience, Josephsen demonstrates best practices throughout and also reveals common mistakes, their consequences, and how to avoid them. He provides all the

technical depth you need to configure and run Nagios successfully, including a practical and thorough discussion of writing your own custom modules with the C-based Nagios Event-Broker API. Extensively updated throughout, this edition adds an entirely new chapter on scaling Nagios for large, complex networks that rely heavily on virtualization and cloud services. Josephsen thoroughly introduces Nagios XI, the advanced new commercial version of Nagios and shows how to improve productivity with the latest third-party tools and plug-ins. Coverage includes: Learn how Nagios works, in depth Master focused, efficient techniques for configuring and deploying the latest versions of Nagios Solve real-world problems in monitoring Windows and UNIX systems, networking hardware, and environmental sensors Systematically scale and optimize Nagios for the largest enterprise environments Enhance your monitoring system with new tools including Check-MK, Op5 Merlin, and SFlow Integrate visualization via Ganglia, Graphite, and RRDTool Simplify and streamline all facets of system monitoring with Nagios XI

Build powerful custom Nagios Event Broker (NEB) modules, step-by-step Learn about easy-to-understand code listings, fully updated for today's platforms No matter how complex your systems monitoring challenges are, this book will help you achieve the results you want—right from the start.

Monitoring with Graphite-Jason Dixon 2017-03-13 Graphite has become one of the most powerful monitoring tools available today, due to its ease of use, rapid graph prototyping abilities, and a friendly rendering API. With this practical guide, system administrators and engineers will learn how to use this open source tool to track operational data you need to monitor your systems, as well as application-level metrics for profiling your services. Author Jason Dixon, member of the Graphite project, provides a thorough introduction of Graphite from the basics to the skills and tools you need for troubleshooting and scaling out its software components. If you want to learn more about

monitoring systems, services, or applications, this is the book you need. Get an introduction to monitoring, including important concepts and terminology Examine the features and functionality of key Graphite components, including Carbon and Whisper Learn the typical user workflow necessary to create a basic line chart Build complex charts with chained functions and multiple axes that interact directly with the rendering API Understand how to use the native Graphite dashboard, as well as the more popular third-party dashboards Master the art of scaling and troubleshooting high-performance or highly available Graphite clusters

Backup & Recovery-Curtis Preston 2007 Packed with practical, affordable backup and recovery solutions for UNIX, Linux, Windows, and the Mac OS X system--as well as various databases--this new guide is a complete overhaul of the author's strong-selling "UNIX Backup & Recovery," now revised and expanded with over 40 percent new material.

Essential SNMP-Douglas Mauro 2005 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.

Big Money, Little Effort-Mark Shipman 2008-03-03 From the best-selling author of the Next Big Investment Boom, this book provides everything you need to know about making the world's money markets work to your advantage, enabling you to turn basic investments into a winning portfolio. Big Money, Little Effort shows you how a straightforward, manageable and stress-free investment system, if properly applied and monitored, can protect you from the volatility of the world's stock markets while ensuring consistent returns on your original investment. In an industry awash with different (and often very vocal) opinions, the author removes the mystique that often surrounds stock market investment and explains his own tried-and-tested system for managing your investments - a system that can be operated and maintained in a short amount of time, once a week. The book includes a glossary of financial terms and a list of further reading resources. Whether your investment is large or small, Big Money, Little Effort is the essential guide if you want to make positive returns from the stock market.

Water Quality Monitoring-Jamie Bartram 1996-07-25 Water quality monitoring is a

fundamental tool in the management of freshwater resources, and this book covers the entire monitoring process providing detailed guidance for implementing a monitoring network with step-by-step descriptions of field and laboratory methods.

The Art of Monitoring-James Turnbull 2014-12 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.

Monitoring Bathing Waters-Jamie Bartram 1999-11-25 This book, which has been prepared by an international group of experts, provides comprehensive guidance for the design, planning and implementation of assessments and monitoring programmes for water bodies used for recreation. It addresses the wide range of hazards which may be encountered and emphasizes the importance of linking monitoring progra

Monitoring with Prometheus-James Turnbull 2018-06-12 Learn how to implement metrics-centric monitoring with Prometheus. This

introductory book teaches you how to use Prometheus to monitor hosts, applications, and services. We cover installation, basic monitoring, service discovery, alerting, log monitoring, scaling, and visualization. Includes introducing you to monitoring basics, methodologies and approaches. Learn how to monitor in a metric-centric world including building dynamic thresholds, basic anomaly detection, monitoring aggregation, and federation. We'll look at how to apply modern patterns like Google's Four Golden Signals, the USE method, and the RED method. We cover monitoring Kubernetes, Docker containers, databases, and we look at instrumenting applications and integrating logging. We focus on the particular challenges of monitoring highly dynamic, transitory environments and new architectures like microservices. We focus on monitoring in the Cloud, including looking at service discovery and monitoring for Cloud platforms.

Hands-On Infrastructure Monitoring with

Prometheus-Joel Bastos 2019-05-31 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.

Educating Everybody's Children-Robert W. Cole W. Cole 2008-06-15 Designed to promote reflection, discussion, and action among the entire learning community, Educating Everybody's Children encapsulates what research has revealed about successfully addressing the needs of students from economically, ethnically, culturally, and linguistically diverse groups and identifies a wide range of effective principles and instructional strategies. Although good teaching works well with all students, educators must develop an extensive repertoire of instructional tools to meet

the varying needs of students from diverse backgrounds. Those tools and the knowledge base behind them are the foundation of this expanded and revised second edition of Educating Everybody's Children. Each strategy discussed in the book includes classroom examples and a list of the research studies that support it. The most important thing we have learned as a result of the education reform movement is that student achievement stands or falls on the motivation and skills of teachers. We must ensure that all teachers are capable of delivering a standards-based curriculum that describes what students should know and be able to do, and that these standards are delivered by means of a rich and engaging "pedagogy of plenty." By these two acts we can ensure that all schools will be ready and able to educate everybody's children.

An Essential Guide to Improving Attendance in your School-Ken Reid 2013-11-07 In this engaging book Professor Ken Reid focuses on the needs of school professionals and leaders, providing them with workable, achievable solutions to radically reducing their truancy rates. As well as discussing the importance of regular attendance and the importance of sound leadership, Professor Reid provides: A highly effective whole school strategy for use in both primary and secondary schools Checklists on good practice Early intervention strategies Advice on using attendance panels Guidance on effective monitoring schemes Supporting throughout with case-studies, sample letters, reports, attendance calendars and action plans, this book will be an essential staff-room resource for head teachers, deputy head teachers, teachers and any educational professional eager to raise standards for all.

Fundamentals of Software Architecture-Mark Richards 2020-01-28 Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This

book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an engineering discipline:

Repeatable results, metrics, and concrete valuations that add rigor to software architecture

Building Microservices-Sam Newman 2015-02-02 Annotation Over the past 10 years, distributed systems have become more fine-grained. From the large multi-million line long monolithic applications, we are now seeing the benefits of smaller self-contained services. Rather than heavy-weight, hard to change Service Oriented Architectures, we are now seeing systems consisting of collaborating microservices. Easier to change, deploy, and if required retire, organizations which are in the right position to take advantage of them are yielding significant benefits. This book takes an holistic view of the things you need to be cognizant of in order to pull this off. It covers just enough understanding of technology, architecture, operations and organization to show you how to move towards finer-grained systems.

Site Reliability Engineering-Betsy Beyer 2016-03-23 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

Qualities of Effective Principals-James H. Stronge 2021 What does it take to be a good school principal? No two principals work exactly the same way, but research shows that effective principals focus on a core set of factors critical to fostering success among all students. In this second edition of Qualities of Effective Principals, James H. Stronge and Xianxuan Xu delineate these factors and show principals how to successfully balance the needs and priorities of their schools while continuously developing and refining their leadership skills. Throughout the book, the authors provide practical tools and extensive research that will help principals * Assess, exhibit, and harness instructional

leadership to meet a school's goals. * Foster and sustain an effective school climate for learning. * Select, support, and retain high-quality teachers and staff. * Manage school resources effectively and efficiently. * Create, maintain, and strengthen internal and external community relationships. * Define their role in student achievement. This book also includes practical skills checklists, along with quality indicators and red flags for effective leadership. Qualities of Effective Principals, 2nd Edition, is an excellent resource for both experienced and new principals committed to developing and leading strong schools that help all students succeed.

Implementation Research in Health-David H. Peters 2013 Interest in implementation research is growing, largely in recognition of the contribution it can make to maximizing the beneficial impact of health interventions. As a relatively new and, until recently, rather neglected field within the health sector, implementation research is something of an unknown quantity for many. There is therefore a need for greater clarity about what exactly implementation research is, and what it can offer. This Guide is designed to provide that clarity. Intended to support those conducting implementation research, those with responsibility for implementing programs, and those who have an interest in both, the Guide provides an introduction to basic implementation research concepts and language, briefly outlines what it involves, and describes the many opportunities that it presents. The main aim of the Guide is to boost implementation research capacity as well as demand for implementation research that is aligned with need, and that is of particular relevance to health systems in low- and middle-income countries (LMICs). Research on implementation requires the engagement of diverse stakeholders and multiple disciplines in order to address the complex implementation challenges they face. For this reason, the Guide is intended for a variety of actors who contribute to and/or are impacted by implementation research. This includes the decision-makers

responsible for designing policies and managing programs whose decisions shape implementation and scale-up processes, as well as the practitioners and front-line workers who ultimately implement these decisions along with researchers from different disciplines who bring expertise in systematically collecting and analyzing information to inform implementation questions. The opening chapters (1-4) make the case for why implementation research is important to decision-making. They offer a workable definition of implementation research and illustrate the relevance of research to problems that are often considered to be simply administrative and provide examples of how such problems can be framed as implementation research questions. The early chapters also deal with the conduct of implementation research, emphasizing the importance of collaboration and discussing the role of implementers in the planning and designing of studies, the collection and analysis of data, as well as in the dissemination and use of results. The second half of the Guide (5-7) detail the various methods and study designs that can be used to carry out implementation research, and, using examples, illustrates the application of quantitative, qualitative, and mixed-method designs to answer complex questions related to implementation and scale-up. It offers guidance on conceptualizing an implementation research study from the identification of the problem, development of research questions, identification of implementation outcomes and variables, as well as the selection of the study design and methods while also addressing important questions of rigor.

Practical Pediatric Endocrinology in a Limited Resource Setting-Margaret Zacharin 2013-04-11 Practical Pediatric Endocrinology in a Limited Resource Setting provides a guide for managing pediatric endocrine problems in a limited resource setting, together with an outline of the bases for these disorders. The book outlines a plan for coming to a likely diagnosis in situations where resources are constrained, and

suggests ways to access more sophisticated technologies for diagnostic confirmation and extension of available tools. Further extending and complementing each chapter is a series of scenarios for use as teaching and learning tools. Together with a clinical question, all chapters include a suggested outline for assessment that assists readers facing similar situations in daily practice. Each scenario works through a typical series of deductive steps used to establish a working diagnosis, while considering both a differential diagnosis and reminding readers of current knowledge around the subject matter. Provides a working knowledge of pediatric endocrinology, from the viewpoint of practical application, for residents and clinicians practicing in settings with scarce material resources Features clinically based chapters, empahsising workable diagnoses and management plans in limited resource situations Includes information on Type 1 diabetes mellitus, given its increasing prevalence worldwide Describes basic research techniques and planning, intended to foster collaboration between colleagues and other centers in clinical or basic research, which can inform clinical practice and drive innovation

Pandemic Influenza Preparedness and Response- 2009 "Influenza pandemics are unpredictable but recurring events that can have severe consequences on societies worldwide. This revised WHO guidance publication on pandemic influenza preparedness and response acknowledges that pandemic preparedness is centered around health sectors planning but must also be broader. WHO therefore advocates a "whole-of-society" approach to sustainable and ethical pandemic preparedness while focusing in more detail on the role of the health sector. The roles of WHO and national governments are outlined to create a better understanding of how health and non-health sectors, both public and private, all contribute to pandemic preparedness"--Publisher's description.

Preparing Teachers-National Research Council 2010-07-25 Teachers make a difference. The success of any plan for improving educational outcomes depends on the teachers who carry it out and thus on the abilities of those attracted to the field and their preparation. Yet there are many questions about how teachers are being prepared and how they ought to be prepared. Yet, teacher preparation is often treated as an afterthought in discussions of improving the public education system. Preparing Teachers addresses the issue of teacher preparation with specific attention to reading, mathematics, and science. The book evaluates the characteristics of the candidates who enter teacher preparation programs, the sorts of instruction and experiences teacher candidates receive in preparation programs, and the extent that the required instruction and experiences are consistent with converging scientific evidence. Preparing Teachers also identifies a need for a data collection model to provide valid and reliable information about the content knowledge, pedagogical competence, and

effectiveness of graduates from the various kinds of teacher preparation programs. Federal and state policy makers need reliable, outcomes-based information to make sound decisions, and teacher educators need to know how best to contribute to the development of effective teachers. Clearer understanding of the content and character of effective teacher preparation is critical to improving it and to ensuring that the same critiques and questions are not being repeated 10 years from now.

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Handbook on Planning, Monitoring and Evaluating for Development Results-United Nations Development Programme 2009 This 'Handbook on Planning, Monitoring and Evaluating for Development Results' is an updated edition of the 2002 edition of 'Handbook on Monitoring and Evaluation for Results'. It seeks to address new directions in planning,

monitoring and evaluation in the context of the United Nations Development Programme (UNDP) corporate strategic plan, the requirements of the UNDP evaluation policy approved by the Executive Board in 2006 and the United Nations Evaluation Group (UNEG) 'Standards for Evaluation in the UN System'. The updated Handbook also incorporates information recommended by key users of the Handbook during various workshops held by UNDP units.

The Formative Assessment Action Plan-Nancy Frey 2011-01-01 Nancy Frey and Douglas Fisher reveal how to create a failsafe assessment system that leads to purposeful lessons, clear indicators of student understanding, and forms of feedback that improve student performance. -- from publisher description.

Strategic and Practical Approaches for Information Security Governance: Technologies and Applied Solutions-Gupta, Manish 2012-02-29 Organizations, worldwide, have adopted practical and applied approaches for mitigating risks and managing information security program. Considering complexities of a large-scale, distributed IT environments, security should be proactively planned for and prepared ahead, rather than as used as reactions to changes in the landscape. Strategic and Practical Approaches for Information Security Governance: Technologies and Applied Solutions presents high-quality research papers and practice articles on management and governance issues in the field of information security. The main focus of the book is to provide an organization with insights into practical and applied solutions, frameworks, technologies and practices on technological and organizational factors. The book aims to be a collection of knowledge for professionals, scholars, researchers and academicians working in this field that is fast evolving and growing as an area of information assurance.

Weight Management-Institute of Medicine 2003-12-01 The primary purpose of fitness and body composition standards in the U.S. Armed Forces has always been to select individuals best suited to the physical demands of military service, based on the assumption that proper body weight and composition supports good health, physical fitness, and appropriate military appearance. The current epidemic of overweight and obesity in the United States affects the military services. The pool of available recruits is reduced because of failure to meet body composition standards for entry into the services and a high percentage of individuals exceeding military weight-for-height standards at the time of entry into the service leave the military before completing their term of enlistment. To aid in developing strategies for prevention and remediation of overweight in military personnel, the U.S. Army Medical Research and Materiel Command requested the Committee on Military Nutrition Research to review the scientific evidence for: factors that influence body weight, optimal components of a weight loss and weight maintenance program, and the role of gender, age, and ethnicity in weight management.

Pesticides-Sonia Soloneski 2014-02-20 The edited book Pesticides - Toxic Aspects contains an overview of attractive researchers of pesticide toxicology that covers the hazardous effects of common chemical pesticide agents employed every day in our agricultural practices. The combination of experimental and theoretical pesticide investigations of current interest will make this book of significance to researchers, scientists, engineers, and graduate students who make use of those different investigations to understand the toxic aspects of pesticides. We hope that this book will continue to meet the expectations and needs of all interested in different aspects of pesticide toxicity.

Parenting Matters-National Academies of Sciences, Engineering, and Medicine 2016-12-21 Decades of research have demonstrated that the

parent-child dyad and the environment of the familyâ€"which includes all primary caregiversâ€"are at the foundation of children's well- being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in

funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. Parenting Matters identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the

United States.

The DAC Guidelines-OCSE = OECD. 2001 Developing countries want to join in the globalisation process. However, the increasing complexity of global markets, the new challenges of the multilateral trading system and the competing demands of regional, bilateral and multilateral trade agreemen

Learning from SARS-Institute of Medicine 2004-04-26 The emergence of severe acute respiratory syndrome (SARS) in late 2002 and 2003 challenged the global public health community to confront a novel epidemic that spread rapidly from its origins in southern China until it had reached more than 25 other countries within a matter of months. In addition to the number of patients infected with the SARS virus, the disease had profound economic and political repercussions in many of the affected regions. Recent reports of isolated new SARS cases and a fear that the disease could reemerge and spread have put public health officials on high alert for any indications of possible new outbreaks. This report examines the response to SARS by public health systems in individual countries, the biology of the SARS coronavirus and related coronaviruses in animals, the economic and political fallout of the SARS epidemic, quarantine law and other public health measures that apply to combating infectious diseases, and the role of international organizations and scientific cooperation in halting the spread of SARS. The report provides an illuminating survey of findings from the epidemic, along with an assessment of what might be needed in order to contain any future outbreaks of SARS or other emerging infections.

Field Trials of Health Interventions-Richard H. Morrow 2015-06-11 Before new interventions can be used in disease control programmes, it is essential that they are carefully evaluated in "field trials", which may be complex and

expensive undertakings. Descriptions of the detailed procedures and methods used in trials that have been conducted in the past have generally not been published. As a consequence, those planning such trials have few guidelines available and little access to previously accumulated knowledge. In this book the practical issues of trial design and conduct are discussed fully and in sufficient detail for the text to be used as a "toolbox" by field investigators. The toolbox has now been extensively tested through use of the first two editions and this third edition is a comprehensive revision, incorporating the many developments that have taken place with respect to trials since 1996 and involving more than 30 contributors. Most of the chapters have been extensively revised and 7 new chapters have been added.

Fast and Effective Assessment-Glen Pearsall 2018-02-05 What if teachers could dramatically reduce the amount of time they spend reviewing and correcting student work and actually see better results in terms of student learning? That's the goal of Glen Pearsall, who shares dozens of classroom-tested strategies that lessen teachers' workload while increasing students' class participation and improving their understanding. Readers will learn how to • Refine their classroom questioning techniques to continually check students' progress and provide instant feedback; • Encourage students to internalize learning goals so they better understand what is expected of them; • Use fast, formative assessment strategies to check and correct during class time; • Modify traditional summative-testing strategies to monitor student progress in a formative way; • Speed up the correction process via student self-proofing, representative sampling, and helpful technology tools; and • Engage students in becoming actively involved in assessing their own work. Drawing from his own experience as a teacher and coach, Pearsall offers practical, real-world advice in the form of techniques that are both effective and sustainable in the everyday classroom. The result is smarter assessment—for

both teachers and students.

Evaluating and Improving Undergraduate Teaching in Science, Technology, Engineering, and Mathematics-National Research Council 2003-01-19 Economic, academic, and social forces are causing undergraduate schools to start a fresh examination of teaching effectiveness. Administrators face the complex task of developing equitable, predictable ways to evaluate, encourage, and reward good teaching in science, math, engineering, and technology. Evaluating, and Improving Undergraduate Teaching in Science, Technology, Engineering, and Mathematics offers a vision for systematic evaluation of teaching practices and academic programs, with recommendations to the various stakeholders in higher education about how to achieve change. What is good undergraduate teaching? This book discusses how to evaluate undergraduate teaching of science, mathematics, engineering, and technology and what

characterizes effective teaching in these fields. Why has it been difficult for colleges and universities to address the question of teaching effectiveness? The committee explores the implications of differences between the research and teaching cultures-and how practices in rewarding researchers could be transferred to the teaching enterprise. How should administrators approach the evaluation of individual faculty members? And how should evaluation results be used? The committee discusses methodologies, offers practical guidelines, and points out pitfalls. Evaluating, and Improving Undergraduate Teaching in Science, Technology, Engineering, and Mathematics provides a blueprint for institutions ready to build effective evaluation programs for teaching in science fields.

A Practical Guide to Planning Interventions and Monitoring Progress-Lee Ann Jung 2014-12-08 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 Elements of Journalism-Bill Kovach 2001-07-24 In July 1997, twenty-five of America's most influential journalists sat down to try and discover what had happened to their profession in the years between Watergate and Whitewater. What they knew was that the public no longer trusted the press as it once had. They were keenly aware of the pressures that advertisers and new technologies were putting on newsrooms around the country. But, more than anything, they were aware that readers, listeners, and viewers — the people who use the news — were turning away from it in droves. There were many reasons for the public's growing lack of trust. On television, there were the ads that looked like news shows and programs that presented gossip and press releases as if they were news. There were the "docudramas," television movies that were an uneasy blend of fact and fiction and which purported to show viewers how events had "really" happened. At newspapers and magazines, celebrity was replacing news, newsroom budgets were being slashed, and editors were pushing journalists for more "edge" and "attitude" in place of reporting. And, on the radio, powerful talk personalities led their listeners from sensation to sensation, from fact to fantasy, while deriding traditional journalism. Fact was blending with fiction, news with entertainment, journalism with rumor. Calling themselves the Committee of Concerned Journalists, the twenty-five determined to find how the news had found itself in this state. Drawn from the committee's years of intensive research, dozens of surveys of readers, listeners, viewers, editors, and journalists, and more than one hundred intensive interviews with journalists

and editors, The Elements of Journalism is the first book ever to spell out — both for those who create and those who consume the news — the principles and responsibilities of journalism. Written by Bill Kovach and Tom Rosenstiel, two of the nation's preeminent press critics, this is one of the most provocative books about the role of information in society in more than a generation and one of the most important ever written about news. By offering in turn each of the principles that should govern reporting, Kovach and Rosenstiel show how some of the most common conceptions about the press, such as neutrality, fairness, and balance, are actually modern misconceptions. They also spell out how the news should be gathered, written, and reported even as they demonstrate why the First Amendment is on the brink of becoming a commercial right rather than something any American citizen can enjoy. The Elements of Journalism is already igniting a national dialogue on issues vital to us all. This book will be the starting point for discussions by journalists and members of the public about the nature of journalism and the access that we all enjoy to information for years to come.

The Educator's Guide to Preventing and Solving Discipline Problems-Mark Boynton 2005 Covers various aspect of effective discipline systems, including discussion of the crucial components of classroom discipline and universal techniques for teachers.

Practical Manual for the Monitoring and Control of Macrofouling Mollusks in Fresh Water Sys-Renata Claudi 1993-12-02 Since its introduction to the Great Lakes system in 1985, the zebra mussel has spread so rapidly that it is now considered the most serious biofouling pest of any exotic species. Practical Manual for Zebra Mussel Monitoring and Control will help you counter this threat by leading you through the events you will be faced with when dealing with this biofouler. This book is a crucial source of detection, monitoring, and control methods. It

also provides thorough discussions regarding the mussel's biology and potential for harm. Learn how to: