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Learn how to monitor your large IT environments using Zabbix with this one-stop, comprehensive guide to the Zabbix world-About This Book• Create a tailor-made monitoring solution based on your specific needs• Learn advanced techniques of Zabbix to monitor networks, performances, and other critical features in large environments• Integrate, customize, and extend your monitoring solutions with external components and softwareWho This Book Is ForThis book is intended for system administrators and IT architects who need to better integrate their Zabbix installation with their surrounding environment. A basic, working knowledge of Zabbix and Linux is assumed so that the book can focus on how to use every component to its full advantage. It will also be helpful to be familiar with programming concepts and languages but if not, all the content in the book is thorough and well documented.What You Will Learn• Efficiently collect data from a large variety of monitoring objects• Organize your data in graphs, charts, maps, and slide shows• Build intelligent triggers and alarms to monitor your network proactively• Write your own custom probes and monitoring scripts to extend Zabbix• Configure Zabbix and its database to be high available and fault-tolerant• Automate repetitive procedures using Zabbix's API• Integrate Zabbix with external systems• Understand the protocol and how to interact with it by writing your own custom agentIn DetailNowadays monitoring systems play a crucial role in any IT environment. They are extensively used to not only measure your system's performance, but also to forecast capacity issues. This is where Zabbix, one of the most popular monitoring solutions for networks and applications, comes into the picture. With an efficient monitoring system in place you'll be able to foresee when your infrastructure runs under capacity and react accordingly. Due to the critical role a monitoring system plays, it is fundamental to implement it in the best way from its initial setup. This avoids misleading, confusing, or, even worse, false alarms which can disrupt an efficient and healthy IT department.This new edition will provide you with all the knowledge you need to make strategic and practical decisions about the Zabbix monitoring system. The setup you'll do with this book will fit your environment and monitoring needs like a glove. You will be guided through the initial steps of choosing the correct size and configuration for your system, to what to monitor and how to implement your own custom monitoring component. Exporting and integrating your data with other systems is also covered.By the end of this book, you will have a tailor-made and well configured monitoring system and will understand with absolute clarity how crucial it is to your IT environment.Style and approachThis book is an easy to follow, step-by-step guide to monitoring network and performance in large environments with Zabbix. It is designed for real-world Zabbix administrators, and is comprised of a perfect mix of theoretical explanations and practical applications, making it your perfect companion.

For use in an introductory circuit analysis or circuit theory course, this text presents circuit analysis in a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Completely updated to the 2020 NEC®! Features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Load Calculations- Feeders and Services, Health Care Facilities, Standby and Emergency Systems, Basic Electronic Theory, Fire Alarm Systems, Specialty Transformers, Advanced Controls, HVAC Controls, Heat Tracing and Freeze Protection, Motor Operation and Maintenance, Medium-Voltage Terminations/Splices, Special Locations, and Fundamentals of Crew Leadership.

Monitoring systems can be extremely useful not only to identify specific problems, but also to measure your system's performance and find the best way to improve it. However, they can be

misleading and confusing if not correctly configured and managed. Zabbix 2.2 allows you to customize and implement ideas by extending, adding, or customizing functionality, giving an added value to that technology. This comprehensive guide will help you to make both strategic and practical decisions about the Zabbix monitoring system, so that it will fit your environment and monitoring needs like a glove.

(Module ID 26301-14) Explains how to calculate branch circuit and feeder loads for residential and commercial applications.

Accompanying DVD-ROM contains the Limited Academic Version of EES (Engineering Equation Solver) software with scripted solutions to selected text problems.

Cockpit Resource Management (CRM) has gained increased attention from the airline industry in recent years due to the growing number of accidents and near misses in airline traffic. This book, authored by the first generation of CRM experts, is the first comprehensive work on CRM. Cockpit Resource Management is a far-reaching discussion of crew coordination, communication, and resources from both within and without the cockpit. A valuable resource for commercial and military airline training curriculum, the book is also a valuable reference for business professionals who are interested in effective communication among interactive personnel. Key Features * Discusses international and cultural aspects of CRM * Examines the design and implementation of Line-Oriented Flight Training (LOFT) * Explains CRM, LOFT, and cockpit automation * Provides a case history of CRM training which improved flight safety for a major airline

(Module ID 26308-14) Covers the components, installation considerations, and NEC(r) requirements for commercial services.

The idea of The Fingerprint Sourcebook originated during a meeting in April 2002. Individuals representing the fingerprint, academic, and scientific communities met in Chicago, Illinois, for a day and a half to discuss the state of fingerprint identification with a view toward the challenges raised by Daubert issues. The meeting was a joint project between the International Association for Identification (IAI) and West Virginia University (WVU). One recommendation that came out of that meeting was a suggestion to create a sourcebook for friction ridge examiners, that is, a single source of researched information regarding the subject. This sourcebook would provide educational, training, and research information for the international scientific community.

Completely updated to the 2020 NEC(R)! Features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Occupational Overview: The Electrical Industry, Safety for Electricians, Introduction to Electrical Circuits, Electrical Theory, Introduction to the National Electrical Code(R), Device Boxes, Hand Bending, Wireways, Raceways and Fittings, Conductors and Cables, Basic Electrical Construction Drawings, Residential Electrical Services, and Electrical Test Equipment.

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

With the new classification of chronic myeloproliferative disorders, and the rise of interest in molecularly targeted therapies, this timely text brings together international experts on the topic to discuss the current technologies and their implications for the treatment of patients. This title comprehensively covers chronic myeloid leukemia and Ph-negative chronic myeloproliferative disorders and is an essential resource for all practitioners in Hematologic Oncology.

24 completely unique unicorn coloring pages for kids ages 4-8! Unicorns are so much fun to color because they lead such interesting, magical lives! They meet princesses, dragons and mermaids. They visit castles and enchanted woodlands, fly through stars and rainbow skies and even wind up in the Land of Sweets! Share the fun and magic of unicorns with a special child! This coloring book is a great non-screen activity to stimulate a child's creativity and imagination. It makes a perfect gift! About this unicorn coloring book:* Contains 34 completely unique coloring pages. There are NO duplicate images in this book.* The pages are single-sided to prevent bleed-through, and so that pages can be removed and displayed without losing an image on the back.* We have carefully designed each page to be entertaining and suitable for children in the 4 to 8 year-old age range. We have avoided overly-intricate designs as well as overly-simplistic ones. We believe children of this age love coloring fun scenes that fire up their imaginations, not a book full of simple shapes.* The pages are a nice, large 8.5x11 size. Magic Unicorns Coloring Book

Implement machine learning and deep learning methodologies to build smart, cognitive AI projects using Python Key FeaturesA go-to guide to help you master AI algorithms and concepts8 real-world projects tackling different challenges in healthcare, e-commerce, and surveillanceUse TensorFlow, Keras, and other Python libraries to implement smart AI applicationsBook Description This book will be a perfect companion if you want to build insightful projects from leading AI domains using Python. The book covers detailed implementation of projects from all the core disciplines of AI. We start by covering the basics of how to create smart systems using machine learning and deep learning techniques. You will assimilate various neural network architectures such as CNN, RNN, LSTM, to solve critical new world challenges. You will learn to train a model to detect diabetic retinopathy conditions in the human eye and create an intelligent system for performing a video-to-text translation. You will use the transfer learning technique in the healthcare domain and implement style transfer using GANs. Later you will learn to build AI-based recommendation systems, a mobile app for sentiment analysis and a powerful chatbot for carrying customer services. You will implement AI techniques in the cybersecurity domain to generate Captchas. Later you will train and build autonomous vehicles to self-drive using reinforcement learning. You will be using libraries from the Python ecosystem such as TensorFlow, Keras and more to bring the core aspects of machine learning, deep learning, and AI. By the end of this book, you will be skilled to build your own smart models for tackling any kind of AI problems without any hassle. What you will learnBuild an intelligent machine translation system using seq-2-seq neural translation machinesCreate AI applications using GAN and deploy smart mobile apps using TensorFlowTranslate videos into text using CNN and RNNImplement smart AI Chatbots, and integrate and extend them in several domainsCreate smart reinforcement, learning-based applications using Q-LearningBreak and generate CAPTCHA using Deep Learning and Adversarial Learning Who this book is for This book is intended for data scientists, machine learning professionals, and deep learning practitioners who are ready to extend their knowledge and potential in AI. If you want to build real-life smart systems to play a crucial role in every complex domain, then this book is what you need. Knowledge of Python programming and a familiarity with basic machine learning and deep learning concepts are expected to help you get the most out of the book

A modern introduction to photochemistry covering the principles and applications of this topic from both a physical chemistry and organic chemistry angle. Coverage ranges from subjects such as lasers, the atmosphere, biochemistry, medicine and industry and also includes the latest developments in relation to photochemical molecular machines, photodynamic therapy applied to cancer, photochromatic imaging, and photostabilizers. Little in the way of prior knowledge is assumed, and the reader is aided by numerous worked examples, learning objectives, chapter summaries and problems.

This Surgeon General's report details the causes and the consequences of tobacco use among youth and young adults by focusing on the social, environmental, advertising, and marketing influences that encourage youth and young adults to initiate and sustain tobacco use. This is the first time tobacco data on young adults as a discrete population have been explored in detail. The report also highlights successful strategies to prevent young people from using tobacco

(Module ID 26307-14) Discusses transformer types, construction, connections, protection, and grounding.

This book constitutes the proceedings of the 24th International Conference on Automated Deduction, CADE-24, held in Lake Placid, NY, USA, in June 2013. The 31 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 71 initial submissions. CADE is the major forum for the presentation of research in all aspects of automated deduction, ranging from theoretical and methodological issues to the presentation of new theorem provers, solvers and systems.

(Module ID 26311-14) Provides information on selecting, sizing, and installing motor controllers. Also covers control circuit pilot devices and basic relay logic.

This third edition of the best-selling Research Methods for Organizational Studies has been thoroughly revised and updated throughout to reflect the latest methodological advances in organizational research. Highly readable and filled with clear examples, this comprehensive text is designed to help graduate students in Industrial/Organizational Psychology, Human Resources Management, and Organizational Behavior conduct and evaluate research

on all issues related to organizational life. This edition carries on the applied approach of its predecessors, incorporating both qualitative and quantitative methods, with new chapters on statistical modelling and reviewing research.

The global demand for timber is increasing, with prognoses for the EU showing particularly high growth to meet renewable energy targets. However, there are limited options to meet rising timber demands within the EU, and global land competition to meet world food, energy and material needs, as well as to conserve high value nature areas, is increasing. This dissertation addresses the knowledge gap between the pressures of increased land use abroad and the underlying drivers of land use change. It argues that there is a high risk of problem shifting if EU policies to increase timber consumption are not accompanied by a monitoring system that accounts for consumption levels and provides a benchmark for sustainability.

Part of Groundwater Set - Buy all six books and save over 30% on buying separately! Biffaward Winner 2002 The Clean Rivers Trust has fought off stiff competition to become the Research and Development - Technology Category winner at the Biffaward Awards 2002, with its project "Technology Analysis of Acid Mine Drainage Treatment Methods". Minewater Treatment - Technology, Application and Policy, was produced based on the findings of the research to aid in the selection, design and implementation of the most appropriate treatment techniques for particular minewater discharges. Much work has been carried out in recent decades concerning minewater treatment, both in the UK and worldwide. Many different bodies and organizations are involved in developing minewater treatment processes and schemes. Minewater Treatment addresses the need for a single source of state-of-the-art information that draws all the latest research material together. Key features of the book include: a full literature review of minewater treatment throughout the world an overview of relevant legislation and policy in a global context a review of current-

ly available methods for treating minewater worldwide a site specific inventory of minewater treatment schemes within the UK, including compilation of available monitoring data and assessment of performance a review of emerging and innovative minewater treatment technologies and consideration of related academic research within the UK a comprehensive list of active and innovative minewater treatment technologies that are not currently compiled in a book or other review publication a detailed summary and recommendations section assessing the applicability, efficiency and cost-effectiveness of minewater treatment schemes Relevant scientific subject matter is presented in a concise, easily accessible manner to assist with the objective assessment of the progress made to date. Heavily illustrated with many colour photographs, the book allows best use to be made of the collective experience of minewater treatment practitioners throughout the UK, whilst at the same time placing the UK experience within a global context. An invaluable reference work for mining companies, consultants, planning officers, environmental research scientists, environmental agencies, water utilities and regulatory bodies, Minewater Treatment is a definitive source of information on minewater treatment technologies and will help facilitate the selection of the most appropriate technique required to tackle particular minewater discharge problems. Contents The minewater problem Treatment options Existing sites in the UK: Case studies Existing sites in the UK: Site summaries Summary & conclusions

This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning pro-

cess for specific acts began 2-3 months prior to the terrorist incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.

(Module ID 26304-14) Presents the NEC(r) requirements for equipment installed in hazardous locations.

(Module ID 26302-14) Covers the factors involved in conductor selection, including insulation types, current-carrying capacity, temperature ratings, and voltage drop.

Manual on energy management for compressors and turbines, introducing these pieces of equipment as used in the industrial, commercial and institutional sectors; defining methods of determining the approximate energy consumption; providing potential energy and cost savings available; and providing a series of worksheets to establish a standard method of calculating energy and cost savings. Also included is a glossary and specific details for energy calculations for electric motor drives and alternatives.

As a discipline of academy inquiry, International Management applies management concepts and techniques to their contexts in firms working in multinational, multicultural environments. Hodgetts/Luthans: International Management was the first mainstream International Management text in the market. Its 6th edition continues to set the standard for International Management texts with its research-based content and its balance between culture, strategy, and behavior. International Management stresses the balanced approach and the synergy/connection between the text's four parts: Environment (3 chapters): Culture (4 chapters), Strategy and Functions (4 chapters) and Organizational Behavior /Human Resource Management (4 chapters).

(Module ID 26305-14) Explains how to size and select circuit breakers and fuses for various applications. Also covers short circuit calculations and troubleshooting.