

Dataman 300 Series Cognex

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LUCERO BRADLEY

[Arduino by Example](#) Hyperion

Updated for both Python 3.4 and 2.7, this convenient pocket guide is the perfect on-the-job quick reference. You'll find concise, need-to-know information on Python types and statements, special method names, built-in functions and exceptions, commonly used standard library modules, and other prominent Python tools. The handy index lets you pinpoint exactly what you need. Written by Mark Lutz—widely recognized as the world's leading Python trainer—Python Pocket Reference is an ideal companion to O'Reilly's classic Python tutorials, *Learning Python* and *Programming Python*, also written by Mark. This fifth edition covers: Built-in object types, including numbers, lists, dictionaries, and more Statements and syntax for creating and processing objects Functions and modules for structuring and reusing code Python's object-oriented programming tools Built-in functions, exceptions, and attributes Special operator overloading methods Widely used standard library modules and extensions Command-line options and development tools Python idioms and hints The Python SQL Database API

Process Engineering Springer

This book is the first to treat the chemistry of superheavy elements, including important related nuclear aspects, as a self-contained topic. It is written for those – students and novices – who begin to work and those who are working in this fascinating and challenging field of the heaviest and superheavy elements, for their lecturers, their advisers and for the practicing scientists in the field – chemists and physicists – as the most complete source of reference about our today's knowledge of the chemistry of transactinides and superheavy elements. However, besides a number of very detailed discussions for the experts this book shall also provide interesting and easy to read material for teachers who are interested in this subject, for those chemists and physicists who are not experts in the field and for our interested fellow scientists in adjacent fields. Special emphasis is laid on an extensive coverage of the original literature in the reference part of each of the eight chapters to facilitate further and deeper studies of specific aspects. The index for each chapter should provide help to easily find a desired topic and to use this book as a convenient source to get fast access to a desired topic. Superheavy elements – chemical elements which are much heavier than those which we know of from our daily life – are a persistent dream in human minds and the kernel of science fiction literature for about a century.

The Chemistry of Superheavy Elements "O'Reilly Media, Inc."

Summary Big Data teaches you to build big data systems using

an architecture that takes advantage of clustered hardware along with new tools designed specifically to capture and analyze web-scale data. It describes a scalable, easy-to-understand approach to big data systems that can be built and run by a small team. Following a realistic example, this book guides readers through the theory of big data systems, how to implement them in practice, and how to deploy and operate them once they're built. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Web-scale applications like social networks, real-time analytics, or e-commerce sites deal with a lot of data, whose volume and velocity exceed the limits of traditional database systems. These applications require architectures built around clusters of machines to store and process data of any size, or speed. Fortunately, scale and simplicity are not mutually exclusive. Big Data teaches you to build big data systems using an architecture designed specifically to capture and analyze web-scale data. This book presents the Lambda Architecture, a scalable, easy-to-understand approach that can be built and run by a small team. You'll explore the theory of big data systems and how to implement them in practice. In addition to discovering a general framework for processing big data, you'll learn specific technologies like Hadoop, Storm, and NoSQL databases. This book requires no previous exposure to large-scale data analysis or NoSQL tools. Familiarity with traditional databases is helpful. What's Inside Introduction to big data systems Real-time processing of web-scale data Tools like Hadoop, Cassandra, and Storm Extensions to traditional database skills About the Authors Nathan Marz is the creator of Apache Storm and the originator of the Lambda Architecture for big data systems. James Warren is an analytics architect with a background in machine learning and scientific computing. Table of Contents A new paradigm for Big Data PART 1 BATCH LAYER Data model for Big Data Data model for Big Data: Illustration Data storage on the batch layer Data storage on the batch layer: Illustration Batch layer Batch layer: Illustration An example batch layer: Architecture and algorithms An example batch layer: Implementation PART 2 SERVING LAYER Serving layer Serving layer: Illustration PART 3 SPEED LAYER Realtime views Realtime views: Illustration Queuing and stream processing Queuing and stream processing: Illustration Micro-batch stream processing Micro-batch stream processing: Illustration Lambda Architecture in depth *Moving Violations* Simon and Schuster This book constitutes the refereed proceedings of the 5th International Conference on Industrial Applications of Holonic and Multi-Agent Systems, HoloMAS 2011, held in Toulouse, France, August 29-31, 2011. The 25 revised full papers presented were carefully reviewed and selected from 36 submissions. The papers are organized in topical sections on industrial agents, simulation

and modelling, planning and scheduling, smart technical systems, and MAS for unmanned aerial vehicles.

[International Computer Vision Products Database](#) Springer Science & Business Media

A self-contained guide to coordinated multi-point (CoMP), this comprehensive book covers everything from theoretical basics to practical implementation. Addressing a wide range of topics, it highlights the potential gains of CoMP, the fundamental degrees of freedom involved and the key challenges of using CoMP in practice. The editors and contributors bring unique real-world experience from running the world's first and largest test beds for LTE-Advanced, and recent field trial results from these tests are presented. With detailed insight into the realistic potential of CoMP as a key technology for LTE-Advanced and beyond, this is a must-read resource for professionals and students who want the big picture on CoMP or require in-depth knowledge of how to build cellular communication systems for the future.

Electri-onics Springer Science & Business Media

A journalist for National Public Radio and ABC News recounts the challenges he has faced as a paraplegic at home and abroad, from the dangers of war-torn Iraq and Jerusalem to discrimination at home. Reprint.

Packaging Machinery Handbook CRC Press

How hackers, viruses, and worms attack computers from the Internet and exploit security holes in software is explained in this outline of antivirus software, patches, and firewalls that try in vain to withstand the storm of attacks. Some software's effectiveness exists only in the imaginations of its developers because they prove unable to prevent the propagation of worms, but this guide examines where security holes come from, how to discover them, how to protect systems (both Windows and Unix), and how to do away with security holes altogether. Unpublished advanced exploits and techniques in both C and Assembly languages are

Quicksand Springer Science & Business Media

The Handbook of Human-Machine Interaction features 20 original chapters and a conclusion focusing on human-machine interaction (HMI) from analysis, design and evaluation perspectives. It offers a comprehensive range of principles, methods, techniques and tools to provide the reader with a clear knowledge of the current academic and industry practice and debate that define the field. The text considers physical, cognitive, social and emotional aspects and is illustrated by key application domains such as aerospace, automotive, medicine and defence. Above all, this volume is designed as a research guide that will both inform readers on the basics of human-machine interaction from academic and industrial perspectives and also provide a view ahead at the means through which human-centered designers, including engineers and human factors specialists, will attempt to design and develop human-machine systems.

Microprocessor Systems Handbook Enslow Publishing, LLC
 "Process Plant Equipment Book is another great publication from Wiley as a reference book for final year students as well as those who will work or are working in chemical production plants and refinery..." -Associate Prof. Dr. Ramli Mat, Deputy Dean (Academic), Faculty of Chemical Engineering, Universiti Teknologi Malaysia "...give[s] readers access to both fundamental information on process plant equipment and to practical ideas, best practices and experiences of highly successful engineers from around the world... The book is illustrated throughout with numerous black & white photos and diagrams and also contains case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book. An extensive list of references enables readers to explore each individual topic in greater depth..." -Stainless Steel World and Valve World, November 2012 Discover how to optimize process plant equipment, from selection to operation to troubleshooting From energy to pharmaceuticals to food, the world depends on processing plants to manufacture the products that enable people to survive and flourish. With this book as their guide, readers have the information and practical guidelines needed to select, operate, maintain, control, and troubleshoot process plant equipment so that it is efficient, cost-effective, and reliable throughout its lifetime. Following the authors' careful explanations and instructions, readers will find that they are better able to reduce downtime and unscheduled shutdowns, streamline operations, and maximize the service life of processing equipment. Process Plant Equipment: Operation, Control, and Reliability is divided into three sections: Section One: Process Equipment Operations covers such key equipment as valves, pumps, cooling towers, conveyors, and storage tanks Section Two: Process Plant Reliability sets forth a variety of tested and proven tools and methods to assess and ensure the reliability and mechanical integrity of process equipment, including failure analysis, Fitness-for-Service assessment, engineering economics for chemical processes, and process component function and performance criteria Section Three: Process Measurement, Control, and Modeling examines flow meters, process control, and process modeling and simulation Throughout the book, numerous photos and diagrams illustrate the operation and control of key process equipment. There are also case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book. At the end of each chapter, an extensive list of references enables readers to explore each individual topic in greater depth. In summary, this text offers students, process engineers, and plant managers the expertise and technical support needed to streamline and optimize the operation of process plant equipment, from its initial selection to operations to troubleshooting.

A Baker's Dozen John Wiley & Sons

The recent digital and mobile revolutions are a minor blip compared to the next wave of technological change, as everything from robot swarms to skin-top embeddable computers and bio printable organs start appearing in coming years. In this collection of inspiring essays, designers, engineers, and researchers discuss their approaches to experience design for groundbreaking technologies. Design not only provides the framework for how technology works and how it's used, but also places it in a broader context that includes the total ecosystem with which it interacts and the possibility of unintended consequences. If you're a UX designer or engineer open to complexity and dissonant ideas, this book is a revelation. Contributors include: Stephen Anderson, PoetPainter, LLC Lisa Caldwell, Brazen UX Martin Charlier, Independent Design Consultant Jeff Faneuff, Carbonite Andy Goodman, Fjord US Camille Goudeseune, Beckman Institute, University of Illinois at Urbana-Champaign Bill Hartman, Essential Design Steven Keating, MIT Media Lab, Mediated Matter Group Brook Kennedy, Virginia Tech Dirk Knemeyer, Involution Studios Barry Kudrowitz, University of Minnesota Gershom Kutliroff, Omek Studio at Intel Michal Levin, Google Matt Nish-Lapidus, Normative Erin Rae Hoffer, Autodesk Marco Righetto, SumAll Juhan Sonin, Involution Studios Scott Stropkay, Essential Design Scott Sullivan, Adaptive Path Hunter Whitney, Hunter Whitney and Associates, Inc. Yaron Yanai, Omek Studio at Intel

Interface Fundamentals in Microprocessor-Controlled Systems Createspace Independent Publishing Platform

The foremost and primary aim of the book is to meet the requirements of students of Anna University, Bharathidasan University, Mumbai University as well as B.E. / B.Sc of all other Indian Universities.

Robotics Products Database John Wiley & Sons

A riveting true story of the failure of the courts and police to protect a woman and her daughters.

Electro Optics Packt Publishing Ltd

This book has been written to help digital engineers who need a

few basic analog tools in their toolbox. For practicing digital engineers, students, educators and hands-on managers who are looking for the analog foundation they need to handle their daily engineering problems, this will serve as a valuable reference to the nuts-and-bolts of system analog design in a digital world. This book is a hands-on designer's guide to the most important topics in analog electronics - such as Analog-to-Digital and Digital-to-Analog conversion, operational amplifiers, filters, and integrating analog and digital systems. The presentation is tailored for engineers who are primarily experienced and/or educated in digital circuit design. This book will teach such readers how to "think analog" when it is the best solution to their problem. Special attention is also given to fundamental topics, such as noise and how to use analog test and measurement equipment, that are often ignored in other analog titles aimed at professional engineers. - Extensive use of case-histories and real design examples - Offers digital designers the right analog "tool" for the job at hand - Conversational, anecdotal "tone" is very easily accessible by students and practitioners alike

The Handbook of Human-Machine Interaction Harper Horizon

SQL Quickstart Guide SQL is the standard language used for retrieval and manipulating databases. SQL stands for Structured Query Language. It is one of the programming languages that is developed for managing data which is stored in a relational database management system (RDBMS). SQL language operates through use of declarative statements, by this access it ensures that the data is accurate and secure, it also helps maintain the integrity of databases, no matter its size. SQL is widely used today across most web frameworks and database applications. Understanding SQL gives you the liberty to explore data, and make better decisions. One of the benefits of learning SQL language is that, you also learn concepts that are similar to nearly every RDBMS. SQL will execute queries against a database SQL will get data from a database SQL will Insert records in a database SQL will upgrade records in a database SQL will erase records from a database SQL will build new databases SQL will build new tables in a database SQL will build keep procedures in a database SQL will build views in a database SQL will set authorizations on tables, techniques, and views SQL could be a customary Buy the book and learn basics of SQL quickly.....

PROCEEDINGS "O'Reilly Media, Inc."

A comprehensive index to company and industry information in business journals.

The Year of Knots Springer Science & Business Media

An acclaimed artist celebrates the creative possibilities of macramé and knots in this memoir and guide featuring projects and tutorials. Every day for a year, artist Windy Chien learned to tie a new kind of knot and then shared the results on Instagram—a project that both reinvented her life and revolutionized knot art. In *The Year of Knots*, Chien describes how knot-making led her on a path of discovery. She shares projects, tutorials, and transformative personal stories, all aimed at inspiring readers to make knotting—and creativity in general—part of a meditative daily practice. The knots in this book are gorgeously documented step-by-step. Knotted projects abound—from wall hangings to a necklace, a dog leash, a hanging light, and more. At the heart of the story is the simple, empowering idea that a single year is all the time you need to make a life-changing creative leap.

Plastics and Environmental Sustainability БХВ-Петербург

"Explores the International Space Station (ISS), including its construction and the missions required to build it, living and working aboard the ISS, and its importance as the future of the space program"--

High Technology Wiley-Interscience

Finally, a comprehensive book about packaging machinery. The *Packaging Machinery Handbook* is the first book covering the range of packaging machinery in common use. It includes chapters on filling, capping, labeling, cartoning, inspecting and more. The chapter on packaging line design provides a framework for developing a new packaging line from initial idea to production. More than 120 illustrations allow readers to see inside the machines and what makes them tick. A companion website at www.packmachbook.com includes links to hundreds of videos of these machines in action. The book is designed for the newcomer who wants to learn about machinery, for the package designer who needs to understand how their package will be produced and for the seasoned professional who wants a handy reference. What the experts are saying: Experience is the best teacher. But if you can't wait 10 years and don't want to learn the hard way, read *John Henry's Packaging Machinery Handbook* Through a fast-moving conversational writing style - from big-picture "here's why it's done" to nitty-gritty "here's how it's done" - John transfers his extensive packaging knowledge nearly as effortlessly as a Vulcan mind-meld. Lisa McTigue Pierce, packaging journalist since 1982 From his wealth of practical experience, John has put together a

great resource for anyone who is thinking about buying a piece of packaging machinery or who is engaged in putting together a packaging operation. It will help even the most seasoned veterans avoid some common pitfalls. Larry Luciano, President, Luciano Packaging Technology John Henry's Packaging Machinery Handbook will be the definitive work he day it is published. This is the book we in the field will reach for when we need insight into packaging machinery. His technical integrity gives us a book of great utility. This book is first rate and badly needed. Bravo to John Henry! Iver Phallen, President, Oden Corporation

Robotics Industry Directory Abrams

Design and build fantastic projects and devices using the Arduino platform About This Book Explore the different sensors that can be used to improve the functionality of the Arduino projects Program networking modules in conjunction with Arduino to make smarter and more communicable devices A practical guide that shows you how to utilize Arduino to create practical, useful projects Who This Book Is For This book is an ideal choice for hobbyists or professionals who want to create quick and easy projects with Arduino. As a prerequisite, readers must have a working Arduino system and some programming background, ideally in C/C++. Basic knowledge of Arduino is helpful but not required to follow along with this book. What You Will Learn Understand and utilize the capabilities of the Arduino Integrate sensors to gather environmental data and display this information in meaningful ways Add modules such as Bluetooth and Wi-Fi that allow the Arduino to communicate and send data between devices Create simple servers to allow communication to occur Build automated projects including robots while learning complex algorithms to mimic biological locomotion Implement error handling to make programs easier to debug and look more professional Integrate powerful programming tools and software such as Python and Processing to broaden the scope of what the Arduino can achieve Practice and learn basic programming etiquette In Detail Arduino an opensource physical computing platform based on a simple microcontroller board, and a development environment for writing software for the board. The opensource Arduino software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other opensource software. With the growing interest in home-made, weekend projects among students and hobbyists alike, Arduino offers an innovative and feasible platform to create projects that promote creativity and technological tinkering. *Arduino by Example* is a project-oriented guide to help you fully utilize the power of one of the world's most powerful open source platforms, Arduino. This book demonstrates three projects ranging from a home automation project involving your lighting system to a simple robotic project to a touch sensor project. You will first learn the basic concepts such as how to get started with the Arduino, and as you start building the project, you will develop the practical skills needed to successfully build Arduino powered projects that have real-life implications. The complexity of the book slowly increases as you complete a project and move on to the next. By the end of this book, you will be able to create basic projects and utilize the elements used in the examples to construct your own devices. Style and approach This book follows a project-oriented approach, with multiple images and plenty of code to help you build your projects easily. The book uses a tutorial-based methodology where the concepts are first explained and then implemented to help you develop the projects.

The Coolest Job in the Universe S. Chand

Overcome toxic thoughts and negative thinking with Tim Storey's easy-to-follow instructions and simple guidance. During challenging times, toxic thoughts can drag you into a mindset that's mundane, messy, and mad. Negative thinking can undermine all aspects of your life, from family and romantic relationships to career satisfaction, financial stability, and physical and spiritual health. In *The Miracle Mentality*, life coach, speaker, and author Tim Storey provides you with a road map to transcend negative thinking, leading you to bigger adventures, more opportunities, and deeper meaning. In this book, experience a miracle mentality transformation with: Tim's honest and powerful testament that will strengthen your perspective, positivity, and personal choice Essential coaching that will help you navigate friendships and romantic relationships? Tips on establishing a fulfilling work-life balance An encouraging and practical approach to physical, mental, and spiritual health The discovery of a new mindset and freedom that can be applied to your personal finances Honest talk about the influential role of a parent and information to help you improve your parenting skills To overcome these obstacles, you need a new mindset--a miracle mentality--where dreams are achievable, hope is actionable, and spiritual healing is possible. Let *The Miracle Mentality* guide you there with Tim's tips that will magically transform your life.

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