OPC

Giacomo Veneri, Antonio Capasso

OPC Unified Architecture Wolfgang Mahnke, Stefan-Helmut Leitner, Matthias Damm, 2009-04-05 Motivation for This Book The OPC Foundation provides specifications for data exchange in industrial au-mation. There is a long history of COM/DCOM-based specifications, most pro- nent OPC Data Access (DA), OPC Alarms and Events (A&E), and OPC Historical Data Access (HDA), which are widely accepted in the industry and implemented by almost every system targeting industrial automation. Now the OPC Foundation has released a new generation of OPC specifications called OPC Unified Architecture (OPC UA). With OPC UA, the OPC Foundation fulfills a technology shift from the retiring COM/DCOM technology to a servi- oriented architecture providing data in a platform-independent manner via Web Services or its own optimized TCP-based protocol. OPC UA unifies the previous specifications into one single address space capable of dealing with current data, alarms and events and the history of current data as well as the event history. A remarkable enhancement of OPC UA is the Address Space Model by which v- dors can expose a rich and extensible information model using object-oriented techniques. OPC UA scales well from intelligent devices, controllers, DCS, and SCADA systems up to MES and ERP systems. It also scales well in its ability to provide information; on the lower end, a model similar to Classic OPC can be used, providing only base information, while at the upper end, highly sophisticated models can be described, providing a large amount of metadata including complex type hierarchies.

Putin Country Anne Garrels, 2016-03-15 Portrait of the mid-size city of Chelyabinsk and how it is faring in the new Russia--

You Don't Belong Here Elizabeth Becker, 2021-03-02 The long-buried story of three extraordinary female journalists who permanently shattered the barriers to women covering war Kate Webb, an Australian iconoclast, Catherine Leroy, a French daredevil photographer, and Frances FitzGerald, a blue-blood American intellectual, arrived in Vietnam with starkly different life experiences but one shared purpose: to report on the most consequential story of the decade. At a time when women were considered unfit to be foreign reporters, Frankie, Catherine and Kate challenged the rules imposed on them by the military, ignored the belittlement of their male peers, and ultimately altered the craft of war reportage for generations. In You Don't Belong Here, Elizabeth Becker uses these women's work and lives to illuminate the Vietnam War from the 1965 American buildup, the expansion into Cambodia, and the American defeat and its aftermath. Arriving herself in the last years of the war, Becker writes as a historian and a witness of the times. What emerges is an unforgettable story of three journalists forging their place in a land of men, often at great personal sacrifice. Deeply reported and filled with personal letters, interviews, and profound insight, You Don't Belong Here fills a void in the history of women and of war. 'A riveting read with much to say about the nature of war and the different ways men and women correspondents cover it. Frank, fast-paced, often enraging, You Don't Belong Here speaks to the distance travelled and the journey still ahead.' —Geraldine Brooks, Pulitzer Prize-winning author of March, former Wall Street Journal foreign correspondent 'Riveting, powerful and transformative, Elizabeth Becker's You Don't Belong Here tells the stories of three astonishing women. This is a timely and brilliant work from one of our most extraordinary war correspondents.' —Madeleine Thien, Booker Prize finalist and author of Do Not Say We Have Nothing

A Red Line in the Sand David A. Andelman, 2021-01-05 A longtime CNN columnist astutely combines history and global politics to help us better understanding the exploding number of military, political, and diplomatic crises around the globe. The riveting and illuminating behind-the-scenes stories of the world's most intense "red lines, from diplomatic and military challenges at particular turning points in history to the ones that set the tone of geopolitics today. Whether it was the red line in Munich that led to the start of the Second World War, to the red lines in the South China Sea, the Korean Peninsula, Syria and the Middle East. As we traverse the globe, Andelman uses original documentary research, previously classified material, and interviews with key players, to help us understand the growth, the successes and frequent failures that have shaped our world today. Andelman provides not just vivid historical context, but a political anatomy of these red lines. How might their failures be prevented going forward? When and how can such lines in the sand help preserve peace rather than tempt conflict? A Red Line in the Sand is a vital examination of our present and the future—where does diplomacy end and war begin? It is an object lesson of tantamount importance to every leader, diplomat, citizen, and voter. As America establishes more red lines than it has pledged to defend, every American should understand the volatile atmosphere and the existential stakes of the red web that encompasses the globe.

OPC Jürgen Lange, Frank Iwanitz, Thomas J. Burke, 2010 OPC stands for Openness, Productivity, and Collaboration, symbolizing the new possibilities opening up in automation technology. The main objective of the new OPC generation Unified Architecture is to facilitate global interoperability and to define an information and data-exchange mechanism that is service oriented, multivendor, and cross-platform capable - from the field device on the shop floor to the ERP system on the factory level. This book includes information on: - the birth, objectives, and fundamentals of OPC and OPC UA, - the technical specifications that currently exist and those that are in preparation, - the procedures for designing and implementing components, - a transparent presentation of the technology through application possibilities and examples, and - the outlook for the future of OPC and OPC UA. Important perspectives and updates in this new edition include - the new era and the exciting application possibilities developing with OPC UA, - the new OPC UA specifications, - the development of OPC products for Windows, Linux, and VxWorks, - companion standards like FDI (EDD, FDT), ADI, or PLCopen (IEC 61131-3), - new interoperability applications with SAP or Beckhoff Server embedded, and - migration strategies from Classic OPC to OPC UA.

Fundamentals, implementation, and application of Classic OPC and OPC UA are discussed comprehensively in this book. CD-ROM: The included CD-ROM contains industrial OPC Server and OPC Client tools for evaluation, and also several demonstration programs for development, commissioning, testing, and for the simulation of OPC Clients and Servers. The OPC Toolbox is suitable for Windows NT/2000/XP/Vista, Windows 7, Windows CE, Linux, and VxWorks. Furthermore you will find videos and presentations of OPC UA.

Live Better, Longer Richard A. Passwater,2007 Your body is constantly being attacked by very harmful substances known as free radicals. You cannot see them, smell them, or touch them, but they are always there, trying to destroy body proteins and cell membranes. OPC's (oligomeric proanthocyanidins) are among today's most poten and promising free-radical fighters. Found in grape seeds, red wine, and the bark of French maritime pine tress, more powerful than vitamins C and E, the gold-standard among antioxidants. This book explains the benefits of OPCs in combating modern-day killer diseases and in protecting the body's billions of cells.

The Church Order Commentary Idzerd van Dellen, Martin Monsma, 2021-06 This revised third edition is the accepted standard for the interpretation and application of the Church Order of Dordrecht by Reformed and Presbyterian denominations. This weighty and time-tested commentary instructs us today on the need for a book of order for biblical consistency in church government.

OPC UA - Unified Architecture John Rinaldi,2016-04-08 What is OPC UA is a very simple question. The answer when you are discussing a complex technology architecture like OPC UA isn't as simple. OPC UA which I will refer to as UA throughout this book is the next generation of OPC technology. UA is a more secure, open, reliable mechanism for transferring information between Servers and Clients. It provides more open transports, better security and a more complete information model than OPC which I will refer to as OPC Classic. UA provides a very flexible and adaptable mechanism for moving data between Enterprise type systems and the kinds of controls, monitoring devices and sensors that interact with real world data.

OPC Fundamentals, Implementation and Application Frank Iwanitz, Jurgen Lange, 2010 OPC significa Openess, Productivity y Collaboration, que simboliza las nuevas posibilidades que se abren

en la tecnología de automatización. Como plataforma de integración, las PC ofrecen nuevas perspectivas y oportunidades para OPC, tanto en términos técnicos como económicos. Los conceptos de cliente / servidor implementados con OPC ofrecen posibilidades de acceso estandarizadas y de múltiples proveedores. La nueva especificación OPC UA (arquitectura unificada) tiene como objetivo la interoperabilidad global y define una plataforma de interoperabilidad basada en servicios web.

Hands-On Industrial Internet of Things Giacomo Veneri, Antonio Capasso, 2018-11-29 Build a strong and efficient IoT infrastructure at industrial and enterprise level by mastering Industrial IoT network Key FeaturesGain hands-on experience working with industrial architectureExplore the potential of cloud-based Industrial IoT platforms, analytics, and protocolsImprove business models and transform your workforce with Industry 4.0Book Description We live in an era where advanced automation is used to achieve accurate results. To set up an automation environment, you need to first configure a network that can be accessed anywhere and by any device. This book is a practical guide that helps you discover the technologies and use cases for Industrial Internet of Things (IIOT). Hands-On Industrial Internet of Things takes you through the implementation of industrial processes and specialized control devices and protocols. You'll study the process of identifying and connecting to different industrial data sources gathered from different sensors. Furthermore, you'll be able to connect these sensors to cloud network, such as AWS IoT, Azure IoT, Google IoT, and OEM IoT platforms, and extract data from the cloud to your devices. As you progress through the chapters, you'll gain hands-on experience in using open source Node-Red, Kafka, Cassandra, and Python. You will also learn how to develop streaming and batch-based Machine Learning algorithms. By the end of this book, you will have mastered the features of Industry 4.0 and be able to build stronger, faster, and more reliable IoT infrastructure in your Industry. What you will learn Explore industrial processes, devices, and protocolsDesign and implement the I-IoT network flowGather and transfer industrial data in a secure wayGet to grips with popular cloud-based platformsUnderstand diagnostic analytics to answer critical workforce questionsDiscover the Edge device and understand Edge and Fog computingImplement equipment and process management to achieve business-specific

Occupational Performance Coaching Fiona Graham, Ann Kennedy-Behr, Jenny Ziviani, 2020-06-02 This book presents a definitive guide to understanding, applying, and teaching Occupational Performance Coaching (OPC). Grounded in principles of occupational therapy, person-centredness, and interprofessional frameworks of health and disability, this book will be of interest across health and rehabilitation professions. Supporting people affected by disability to do well and live the life they want is the ultimate outcome of all rehabilitation professionals, no matter where on the lifespan our clients sit. Coaching is increasingly recognised as highly effective in achieving this aim. This accessible manual provides case examples related to diverse health conditions alongside practitioner reflections. Uniquely, this manual presents coaching methods designed specifically for the rehabilitation environment. This book is a manual for practitioners, researchers, students, and lecturers interested in gaining a robust understanding of OPC methods, theoretical basis, and implementation. An e-Resource linked to the book provides access to video demonstrations, a podcast from Dr Graham, and downloadable materials including a self-assessment of OPC skills (OPC Fidelity Measure), templates for clinical work, and teaching presentation material. You can access this eResource via http://resourcecentre.routledge.com/books/9780367427962

OPC - Grape Seed Extract: Live Longer and Healthier Dieter Mann, 2021-04-07 Oligomeric Proanthocyanidin complex, also called OPC, is an incredible antioxidant, one that battles aging, Free radicals and much more. Found in high concentrations in the grapes used for wine making, OPC is the main contributor to the health benefits moderate wine consumption has proven to offer. Yet while drinking wine is a pleasurable past time for many, increased alcoholic consumption has also been shown to be problematic, leading to possible addiction, weight gain, accidents and more Luckily, there is a way to gain the benefits of OPC without ingesting copious amounts of wine - grape seed extract. Found most commonly in tablets, capsules and liquid form, grape seed extract is readily available at most health food stores and is easily digestible. This guide breaks down where to find it, how to take it, what benefits there are to be gained and discusses any concerns that might arise. While not quite the fountain of youth, Grape Seed Extract may be nature's most perfect antioxidant.

OPC in practice. The hidden story of proanthocyanidins, nature's most powerful and patented antioxidant Bert Schwitters, Jack Masquelier, 1995

OPC UA: the Basics John Rinaldi,2013-02-20 OPC UA: The Basics is an Everyman's overview of OPC UA. This is not a hardcore technical specification that digs down to the smallest bits and bytes of OPC UA. This is a high level overview of the protocol for someone without 20 years of experience in embedded programming. Perfect for a sales person, IT Professional or executive trying to figure out what OPC UA brings to the table. Join John Rinaldi (The Dr. Phil of Automation) as he breaks down the features of OPC UA and gives you insight into how this emerging technology is redefining the line between Automation and Enterprise Systems.

OPC Chris Kilham,1998-01 Many of us are living longer but enjoying it less, as degenerative conditions induced by free radicals blight the later years. This guide argues that OPC is an effective free radical antagonist, and can be the key to a healthspan that matches our extending lifespan.

Asia is My Beat Earnest Hoberecht, 1961

Welcome to the OPC Danny E. Olinger, Orthodox Presbyterian Church. Committee on Christian Education, 2014

Systematic Theology Robert Letham, 2019-11-19 This comprehensive systematic theology by respected theologian Robert Letham covers the whole field of Reformed Christian doctrine from biblical, historical, and theological angles. Letham begins with God's ultimate selfrevelation as the Father, the Son, and the Holy Spirit in indivisible union, continuing on with the works of God in creation, providence, and grace. He draws deeply from Scripture and important voices from the church to provide a clear and concise articulation of the Reformed faith. He also addresses current issues such as feminism, charismatic gifts, sexual ethics, environmentalism, other religions, the nature of truth, and civil liberties. Each chapter is followed by discussion questions, with a glossary of terms included at the end. This work grounds theological understanding and practice in the life and ministry of the church, accessible to pastors, students, scholars, and anyone who desires to understand, believe, and live scriptural doctrine more fully.

Can the Orthodox Presbyterian Church Be Saved? John William Robbins, 2004 The Orthodox Presbyterian Church was founded in 1936 by about 135 people who were offended by the lack of discipline in and doctrinal errors of the Presbyterian Church in the USA. The purpose of the OPC was to be a spiritual successor to the PCUSA, which had abandoned the Westminster Confession of Faith, even though it still affirmed the Confession as its official statement of faith. But early in its history the OPC fell under the influence of an agnostic view of propositional revelation emanating from Westminster Seminary -- a view that said that there is no identity of content between the 'Christian system' of theology, meaning Reformed confessions of faith, and the 'divine system' of theology, known only to God. This agnosticism has now brought the OPC to the point of falling. Like its predecessor, the PCUSA, the OPC has failed to discipline teachers who teach contrary to Scriptures and the Confession of Faith, and it has endorsed un-Biblical teaching about Scripture and the Gospel. Can the OPC Be Saved? is designed to inform members of the OPC of events and doctrines about which the OPC leadership has not been forthright -- Publisher description.

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Table of Contents OPC

- 1. Understanding the eBook OPC
 - The Rise of Digital Reading OPC
 - Advantages of eBooks Over Traditional Books
- 2. Identifying OPC
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an OPC
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from OPC
 - Personalized Recommendations
 - OPC User Reviews and Ratings
 - OPC and Bestseller Lists
- 5. Accessing OPC Free and Paid eBooks
 - OPC Public Domain eBooks
 - OPC eBook Subscription Services
 - OPC Budget-Friendly Options
- 6. Navigating OPC eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - OPC Compatibility with Devices
 - OPC Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of OPC Highlighting and Note-Taking OPC

 - Interactive Elements OPC
- 8. Staying Engaged with OPC
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers OPC
- 9. Balancing eBooks and Physical Books OPC
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection OPC
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time

- 11. Cultivating a Reading Routine OPC
 - Setting Reading Goals OPC
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of OPC
 - Fact-Checking eBook Content of OPC
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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