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Handbook of Deposition Technologies for Films and Coatings

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Fundamentals and Applications in Contactless Smart Cards, Radio Frequency Identification and Near-Field Communication

Common Space

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Big Data and HPC: Ecosystem and Convergence

Enterprise Security Risk Management

RFID Handbook

On the Commons and the Transformation to Postcapitalism

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## **HORTON FERGUSON**

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*Handbook of Deposition Technologies for  
Films and Coatings Academic Press*

Artificial intelligence (AI) is a transformative technology that holds promise for tremendous societal and economic benefit. AI has the potential to revolutionize how we live, work, learn, discover, and communicate. AI research can further our national priorities,

including increased economic prosperity, improved educational opportunities and quality of life, and enhanced national and homeland security. Because of these potential benefits, the U.S. government has invested in AI research for many years. Yet, as with any significant technology in which the Federal government has interest, there are not only tremendous opportunities but also a number of considerations that must be taken into account in guiding the overall direction of Federally-funded R&D in AI.

On May 3, 2016, the Administration announced the formation of a new NSTC Subcommittee on Machine Learning and Artificial intelligence, to help coordinate Federal activity in AI.<sup>1</sup> This Subcommittee, on June 15, 2016, directed the Subcommittee on Networking and Information Technology Research and Development (NITRD) to create a National Artificial Intelligence Research and Development Strategic Plan. A NITRD Task Force on Artificial Intelligence was then formed to define the Federal strategic priorities for AI R&D, with particular attention on areas that industry is unlikely to address. This National Artificial Intelligence R&D Strategic Plan establishes a set of objectives for Federally-funded AI research, both research occurring within

the government as well as Federally-funded research occurring outside of government, such as in academia. The ultimate goal of this research is to produce new AI knowledge and technologies that provide a range of positive benefits to society, while minimizing the negative impacts. *Linked* Springer Science & Business Media

In the 1980's, James Gleick's *Chaos* introduced the world to complexity. Now, Albert-László Barabási's *Linked* reveals the next major scientific leap: the study of networks. We've long suspected that we live in a small world, where everything is connected to everything else. Indeed, networks are pervasive--from the human brain to the Internet to the economy to our group of friends.

These linkages, it turns out, aren't random. All networks, to the great surprise of scientists, have an underlying order and follow simple laws.

Understanding the structure and behavior of these networks will help us do some amazing things, from designing the optimal organization of a firm to stopping a disease outbreak before it spreads catastrophically. In *Linked*, Barabási, a physicist whose work has revolutionized the study of networks, traces the development of this rapidly unfolding science and introduces us to the scientists carrying out this pioneering work. These "new cartographers" are mapping networks in a wide range of scientific disciplines, proving that social networks, corporations, and cells are more similar

than they are different, and providing important new insights into the interconnected world around us. This knowledge, says Barabási, can shed light on the robustness of the Internet, the spread of fads and viruses, even the future of democracy. Engaging and authoritative, *Linked* provides an exciting preview of the next century in science, guaranteed to be transformed by these amazing discoveries. From *Linked*: This book has a simple message: think networks. It is about how networks emerge, what they look like, and how they evolve. It aims to develop a web-based view of nature, society, and technology, providing a unified framework to better understand issues ranging from the vulnerability of the Internet to the spread of diseases.

Networks are present everywhere. All we need is an eye for them...We will see the challenges doctors face when they attempt to cure a disease by focusing on a single molecule or gene, disregarding the complex interconnected nature of the living matter. We will see that hackers are not alone in attacking networks: we all play Goliath, firing shots at a fragile ecological network that, without further support, could soon replicate our worst nightmares by turning us into an isolated group of species...Linked is meant to be an eye-opening trip that challenges you to walk across disciplines by stepping out of the box of reductionism. It is an invitation to explore link by link the next scientific revolution: the new science of networks. *Fundamentals and Applications in*

*Contactless Smart Cards, Radio Frequency Identification and Near-Field Communication* Rothstein Publishing  
This is the third revised edition of the established and trusted RFID Handbook; the most comprehensive introduction to radio frequency identification (RFID) available. This essential new edition contains information on electronic product code (EPC) and the EPC global network, and explains near-field communication (NFC) in depth. It includes revisions on chapters devoted to the physical principles of RFID systems and microprocessors, and supplies up-to-date details on relevant standards and regulations. Taking into account critical modern concerns, this handbook provides the latest information on: the use of RFID in ticketing and

electronic passports; the security of RFID systems, explaining attacks on RFID systems and other security matters, such as transponder emulation and cloning, defence using cryptographic methods, and electronic article surveillance; frequency ranges and radio licensing regulations. The text explores schematic circuits of simple transponders and readers, and includes new material on active and passive transponders, ISO/IEC 18000 family, ISO/IEC 15691 and 15692. It also describes the technical limits of RFID systems. A unique resource offering a complete overview of the large and varied world of RFID, Klaus Finkenzeller's volume is useful for end-users of the technology as well as practitioners in auto ID and IT designers of RFID

products. Computer and electronics engineers in security system development, microchip designers, and materials handling specialists benefit from this book, as do automation, industrial and transport engineers. Clear and thorough explanations also make this an excellent introduction to the topic for graduate level students in electronics and industrial engineering design. Klaus Finkenzeller was awarded the Fraunhofer-Smart Card Prize 2008 for the second edition of this publication, which was celebrated for being an outstanding contribution to the smart card field.

### **Common Space** Penguin

"SAP's integration technologies are now combined-but what is the SAP Integration Suite, and how do you use it

to manage an integrated enterprise landscape? In this book, get the answers to these questions and more as you take a tour of the new suite. Then get step-by-step instructions for using key capabilities such as pre-packaged integrations, open APIs, integration scenarios, the integration advisor, and more. Master the complete integration suite!"--

Social Internet of Things William Andrew

The aim of this book is to stimulate research on the topic of the Social Internet of Things, and explore how Internet of Things architectures, tools, and services can be conceptualized and developed so as to reveal, amplify and inspire the capacities of people, including the socialization or collaborations that happen through or

around smart objects and smart environments. From new ways of negotiating privacy, to the consequences of increased automation, the Internet of Things poses new challenges and opens up new questions that often go beyond the technology itself, and rather focus on how the technology will become embedded in our future communities, families, practices, and environment, and how these will change in turn.

Emergency Evacuation Planning for Your Workplace Brookings Institution Press

Web services and Service-Oriented Computing (SOC) have become thriving areas of academic research, joint university/industry research projects, and novel IT products on the market. SOC is the computing paradigm that uses Web services as building blocks for

the engineering of composite, distributed applications out of the reusable application logic encapsulated by Web services. Web services could be considered the best-known and most standardized technology in use today for distributed computing over the Internet. This book is the second installment of a two-book collection covering the state-of-the-art of both theoretical and practical aspects of Web services and SOC research and deployments. *Advanced Web Services* specifically focuses on advanced topics of Web services and SOC and covers topics including Web services transactions, security and trust, Web service management, real-world case studies, and novel perspectives and future directions. The editors present

foundational topics in the first book of the collection, *Web Services Foundations* (Springer, 2013). Together, both books comprise approximately 1400 pages and are the result of an enormous community effort that involved more than 100 authors, comprising the world's leading experts in this field.

*The Future of Work* Pearson Education  
A sneak peek at up-and-coming trends in IT, a multidimensional vision for achieving business agility through agile architectures *The Agile Architecture Revolution* places IT trends into the context of Enterprise Architecture, reinventing Enterprise Architecture to support continuous business transformation. It focuses on the challenges of large organizations, while placing such organizations into the

broader business ecosystem that includes small and midsize organizations as well as startups. Organizes the important trends that are facing technology in businesses and public sector organizations today and over the next several years Presents the five broad organizing principles called Supertrends: location independence, global cubicle, democratization of technology, deep interoperability, and complex systems engineering Provides a new perspective on service-oriented architecture in conjunction with architectural approaches to cloud computing and mobile technologies that explain how organizations can achieve better business visibility through IT and enterprise architecture Laying out a multidimensional vision for achieving

agile architectures, this book discusses the crisis points that promise sudden, transformative change, unraveling how organizations' spending on IT will continue to undergo radical change over the next ten years.

*Omnia Sunt Communia* Clarkson Centre for Business Ethics, Joseph L. Rotman School of Management, University of Toronto

This second edition, edited by the world-renowned Dr. Rointain Bunshah, is an extensive update of the many improvements in deposition technologies, mechanisms, and applications. Considerably more material was added in Plasma Assisted Vapor Deposition processes, as well as Metallurgical Coating Applications.

**The Air Force Science and**

**Technology Program** IOS Press

As a security professional, have you found that you and others in your company do not always define “security” the same way? Perhaps security interests and business interests have become misaligned. Brian Allen and Rachelle Loyear offer a new approach: Enterprise Security Risk Management (ESRM). By viewing security through a risk management lens, ESRM can help make you and your security program successful. In their long-awaited book, based on years of practical experience and research, Brian Allen and Rachelle Loyear show you step-by-step how Enterprise Security Risk Management (ESRM) applies fundamental risk principles to manage all security risks. Whether the risks are informational,

cyber, physical security, asset management, or business continuity, all are included in the holistic, all-encompassing ESRM approach which will move you from task-based to risk-based security. How is ESRM familiar? As a security professional, you may already practice some of the components of ESRM. Many of the concepts – such as risk identification, risk transfer and acceptance, crisis management, and incident response – will be well known to you. How is ESRM new? While many of the principles are familiar, the authors have identified few organizations that apply them in the comprehensive, holistic way that ESRM represents – and even fewer that communicate these principles effectively to key decision-makers. How is ESRM practical? ESRM

offers you a straightforward, realistic, actionable approach to deal effectively with all the distinct types of security risks facing you as a security practitioner. ESRM is performed in a life cycle of risk management including: Asset assessment and prioritization. Risk assessment and prioritization. Risk treatment (mitigation). Continuous improvement. Throughout Enterprise Security Risk Management: Concepts and Applications, the authors give you the tools and materials that will help you advance you in the security field, no matter if you are a student, a newcomer, or a seasoned professional. Included are realistic case studies, questions to help you assess your own security program, thought-provoking discussion questions, useful figures and tables, and references

for your further reading. By redefining how everyone thinks about the role of security in the enterprise, your security organization can focus on working in partnership with business leaders and other key stakeholders to identify and mitigate security risks. As you begin to use ESRM, following the instructions in this book, you will experience greater personal and professional satisfaction as a security professional – and you'll become a recognized and trusted partner in the business-critical effort of protecting your enterprise and all its assets.

Createspace Independent Publishing Platform

In this weaving of radical political economy, Omnia Sunt Communia sets out the steps to postcapitalism. By

conceptualising the commons not just as common goods but as a set of social systems, Massimo De Angelis shows their pervasive presence in everyday life, mapping out a strategy for total social transformation. From the micro to the macro, De Angelis unveils the commons as fields of power relations – shared space, objects, subjects – that explode the limits of daily life under capitalism. He exposes attempts to co-opt the commons, through the use of code words such as 'participation' and 'governance', and reveals the potential for radical transformation rooted in the reproduction of our communities, of life, of work and of society as a whole.

The Datacenter as a Computer Microsoft Press

Deep Learning in Bioinformatics:

Techniques and Applications in Practice introduces the topic in an easy-to-understand way, exploring how it can be utilized for addressing important problems in bioinformatics, including drug discovery, de novo molecular design, sequence analysis, protein structure prediction, gene expression regulation, protein classification, biomedical image processing and diagnosis, biomolecule interaction prediction, and in systems biology. The book also presents theoretical and practical successes of deep learning in bioinformatics, pointing out problems and suggesting future research directions. Dr. Izadkhah provides valuable insights and will help researchers use deep learning techniques in their biological and

bioinformatics studies. Introduces deep learning in an easy-to-understand way Presents how deep learning can be utilized for addressing some important problems in bioinformatics Presents the state-of-the-art algorithms in deep learning and bioinformatics Introduces deep learning libraries in bioinformatics

**Big Data and HPC: Ecosystem and Convergence** Simon and Schuster

This book lays out the framework to help you generate better results from your coaching practice using the Stakeholder Center Coaching(R) approach.

Enterprise Security Risk Management  
Bloomsbury Publishing

HYPERAUTOMATION is a collection of expert essays on low-code development and the future of business process automation. In each chapter, an

academic, analyst, implementer, or end-user examines different aspects of low-code and automation in the enterprise, clarifying both value and barriers through personal experiences and insights. With contributions from: Dr. George Westerman, MIT - Neil Ward-Dutton, IDC - Lakshmi N, Tata Consultancy Services - Sidney Fernandes & Alice Wei, University of South Florida - Lisa Heneghan, KPMG - Chris Skinner, FinTech expert - John R. Rymer, Forrester (Emeritus) - Isaac Sacolick, StarCIO - Darren Blake, Bexley Neighbourhood Care - Rob Galbraith, InsureTech expert - Ron Tolido, Capgemini - Michael Beckley, Appian All proceeds from the sale of this book will be donated to Black Girls Code, an organization providing young girls of

color opportunities to learn in-demand skills in technology and computer programming.

*RFID Handbook* Rothstein Publishing  
Current hype aside, the Internet of Things will ultimately become as fundamental as the Internet itself, with lots of opportunities and trials along the way. To help you navigate these choppy waters, this practical guide introduces a dedicated methodology for businesses preparing to transition towards IoT-based business models. With a set of best practices based on case study analysis, expert interviews, and the authors' own experience, the Ignite | IoT Methodology outlined in this book delivers actionable guidelines to assist you with IoT strategy management and project execution. You'll also find a

detailed case study of a project fully developed with this methodology. This book consists of three parts: Illustrative case studies of selected IoT domains, including smart energy, connected vehicles, manufacturing and supply chain management, and smart cities The Ignite | IoT Methodology for defining IoT strategy, preparing your organization for IoT adoption, and planning and executing IoT projects A detailed case study of the IIC Track & Trace testbed, one of the first projects to be fully developed according to the Ignite | IoT Methodology

[On the Commons and the Transformation to Postcapitalism](#)

"O'Reilly Media, Inc."

With special reference to India.

**How Cloud Computing, REST-Based**

## **SOA, and Mobile Computing Are Changing Enterprise IT**

**ABSTRACT** As computation continues to move into the cloud, the computing platform of interest no longer resembles a pizza box or a refrigerator, but a warehouse full of computers. These new large datacenters are quite different from traditional hosting facilities of earlier times and cannot be viewed simply as a collection of co-located servers. Large portions of the hardware and software resources in these facilities must work in concert to efficiently deliver good levels of Internet service performance, something that can only be achieved by a holistic approach to their design and deployment. In other words, we must treat the datacenter itself as one massive warehouse-scale

computer (WSC). We describe the architecture of WSCs, the main factors influencing their design, operation, and cost structure, and the characteristics of their software base. We hope it will be useful to architects and programmers of today's WSCs, as well as those of future many-core platforms which may one day implement the equivalent of today's WSCs on a single board. NOTES FOR THE SECOND EDITION After nearly four years of substantial academic and industrial developments in warehouse-scale computing, we are delighted to present our first major update to this lecture. The increased popularity of public clouds has made WSC software techniques relevant to a larger pool of programmers since our first edition. Therefore, we expanded Chapter 2 to reflect our better

understanding of WSC software systems and the toolbox of software techniques for WSC programming. In Chapter 3, we added to our coverage of the evolving landscape of wimpy vs. brawny server trade-offs, and we now present an overview of WSC interconnects and storage systems that was promised but lacking in the original edition. Thanks largely to the help of our new co-author, Google Distinguished Engineer Jimmy Clidas, the material on facility mechanical and power distribution design has been updated and greatly extended (see Chapters 4 and 5). Chapters 6 and 7 have also been revamped significantly. We hope this revised edition continues to meet the needs of educators and professionals in this area.

### Enterprise Cloud epUB\_1

BriggsEnterprise Cloud epUB\_1

Web Page Scripting Techniques takes the latest techniques in scripting and breaks them down step by step into easy-to-understand tutorials. More than one hundred specifically selected Web pages are used to illustrate advanced scripting techniques - always with a design sensibility and an emphasis on choosing the least complex way of getting the job done. The CD enables you to incorporate these techniques without having to understand the intricacies of JavaScript, VBScript, or HTML. You can learn by example and immediately incorporate what you learn! The companion CD-ROM includes code from all the examples in the book for quick plug & play, text files for all the

Web pages featured in the book, and bookmarks to scripting references and tutorials.

Web Page Scripting Techniques Harvard Business Review Press

Have you begun to question traditional best practices in business continuity (BC)? Do you seem to be concentrating on documentation rather than preparedness? Compliance rather than recoverability? Do your efforts provide true business value? If you have these concerns, David Lindstedt and Mark Armour offer a solution in *Adaptive Business Continuity: A New Approach*. This ground-breaking new book provides a streamlined, realistic methodology to change BC dramatically. After years of working with the traditional practices of business continuity (BC) - in project

management, higher education, contingency planning, and disaster recovery - David Lindstedt and Mark Armour identified unworkable areas in many core practices of traditional BC. To address these issues, they created nine Adaptive BC principles, the foundation of this book: Deliver continuous value. Document only for mnemonics. Engage at many levels within the organization. Exercise for improvement, not for testing. Learn the business. Measure and benchmark. Obtain incremental direction from leadership. Omit the risk assessment and business impact analysis. Prepare for effects, not causes. *Adaptive Business Continuity: A New Approach* uses the analogy of rebuilding a house. After the initial design, the first step is to identify and remove all the

things not needed in the new house. Thus, the first chapter is “Demolition” – not to get rid of the entire BC enterprise, but to remove certain BC activities and products to provide the space to install something new. The stages continue through foundation, framework, and finishing. Finally, the last chapter is “Dwelling,” permitting you a glimpse of what it might be like to live in this new home that has been created. Through a wealth of examples, diagrams, and real-world case studies, Lindstedt and Armour show you how you can execute the Adaptive BC framework in your own organization. You will: Recognize specific practices in traditional BC that may be problematic, outdated, or ineffective. Identify specific activities that you may wish to eliminate from your practice.

Learn the capability and constraint model of recoverability. Understand how Adaptive BC can be effective in organizations with vastly different cultures and program maturity levels. See how to take the steps to implement Adaptive BC in your own organization. Think through some typical challenges and opportunities that may arise as you implement an Adaptive BC approach. *Advanced Web Services* Bloomsbury Publishing

How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you’ll see what makes the cloud so

compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

*Bringing the Lean Start-up into Your Organization* Hassell Street Press

Due to the increasing need to solve complex problems, high-performance computing (HPC) is now one of the most fundamental infrastructures for scientific development in all disciplines, and it has progressed massively in recent years as a result. HPC facilitates the processing of big data, but the tremendous research

challenges faced in recent years include: the scalability of computing performance for high velocity, high variety and high volume big data; deep learning with massive-scale datasets; big data programming paradigms on multi-core; GPU and hybrid distributed environments; and unstructured data processing with high-performance computing. This book presents 19 selected papers from the TopHPC2017 congress on Advances in High-Performance Computing and Big Data Analytics in the Exascale era, held in Tehran, Iran, in April 2017. The book is divided into 3 sections: State of the Art and Future Scenarios, Big Data Challenges, and HPC Challenges, and will be of interest to all those whose work involves the processing of Big Data and

the use of HPC.

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