

## Szakkönyv újdonságok

### **Instrument Engineers' Handbook, (Volume 1) Fourth Edition: Process Measurement and Analysis**

**Bela G Liptak**

- Presents the most up-to-date and complete information in the field--everything an instrument engineer needs to know
- Describes the products of manufacturers from around the world
- Includes contributions from approximately 100 leading industrial and academic professionals
- Covers sensors, detectors, analyzers, and other measuring devices introduced since publication of the third edition

Unsurpassed in its coverage, usability, and authority since first published in 1969, the three-volume Instrument Engineers' Handbook continues to be the premier reference for instrument engineers around the world. It helps users select and implement hundreds of measurement and control instruments and analytical devices and design the most cost-effective process control systems that optimize production and maximize safety.

Volume 1: Process Measurement and Analysis now enters its fourth edition, fully updated and with increased emphasis on installation and maintenance consideration. Its coverage is now fully globalized with product descriptions from manufacturers around the world

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Number of Pages: 1920

ISA - The Instrumentation, Systems, and Automation Society  
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919.549.8411

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### **CELLULAR IMPLICATIONS OF REDOX SIGNALING**

edited by Carlos Gitler & Avihai Danon (Weizmann Institute of Science, Israel)

Redox regulation, like phosphorylation, is a covalent regulatory system that controls many of the normal cellular functions of all living cells and organisms. In addition, it controls how cells respond to stress involving oxidants and free radicals, which underlie many degenerative diseases. This area is undergoing a transition from general knowledge to specific description of the components and mechanisms involved.

This invaluable book provides a timely basic description of a field whose relevance to cell biology and degenerative diseases is of the utmost importance. It describes the state of the art, lays the foundations for understanding the reactions involved, and presents the prospects for future developments. It can serve as a basic text for any undergraduate or graduate course that deals with redox regulation, oxidative stress and free radicals under normal and pathological conditions in bacterial, plant and animal cells.

Contents:

- The Role of Thioredoxin and Glutaredoxin Systems in Disulfide Reduction and Thiol Redox Control
- Selenocysteine Insertion and Reactivity: Mammalian Thioredoxin Reductases in Relation to Cellular Redox Signaling
- Iron-Sulfur Proteins: Properties and Functions
- The Ferredoxin Ferredoxin/Thioredoxin Thioredoxin System: A Light-Dependent Redox

- Regulatory System in Oxygenic Photosynthetic Cells
- Thioredoxin and Redox Regulation: Beginnings in Photosynthesis Lead to a Role in Germination and Improvement of Cereals
  - The Role of Thioredoxin in Regulatory Cellular Functions
  - Protein S-Thiolation, S-Nitrosylation, and Irreversible Sulfhydryl Oxidation: Roles in Redox Regulation
  - Radical Scavenging by Thiols: Biological Significance and Implications for Redox Signaling and Antioxidant Defense
  - Ascorbate and Glutathione Metabolism in Plants: H<sub>2</sub>O<sub>2</sub>-Processing and Signaling
  - Disulfide Bond Formation in the Periplasm and Cytoplasm of Escherichia Coli
  - The Thiol Redox Paradox in the Requirement for Disulfide Isomerization in the Eukaryotic Endoplasmic Reticulum
  - Mechanisms Controlling Redox Balance in Cells. Inhibition of Thioredoxin and of Thioredoxin Reductase
  - Regulatory Disulfides Controlling Transcription Factor Activity in the Bacterial and Yeast Responses to Oxidative Stress
  - Redox Signaling During Light-Regulated Translation in Chloroplasts
  - Regulation of mRNA Translation and Stability in Iron Metabolism: Is There a Redox Switch?
  - Redox Flow as an Instrument for Gene Regulation
  - The Permeability Transition Pore as Source and Target of Oxidative Stress

440pp, Pub. date: Aug 2003 , ISBN 1-86094-331-4 US\$98 / £67

**Imperial College Press**

The link for the book: <http://www.worldscibooks.com/lifesci/p269.html>

## **Understanding Smart Sensors, Second Edition**

**Randy Frank**

Here is a complete, authoritative summary of the latest applications and developments impacting smart sensors in a single volume, now updated to reflect IEEE 1451 smart sensor standards. Utilizing the latest in smart sensor, microelectromechanical systems (MEMS) and microelectronic research and development, you get the technical and practical information you need keep your designs and products on the cutting edge. Plus, you see how advances in fuzzy logic and neural networks continue to determine the direction of smart sensor development.

By combining information on micromachining and microelectronics, this is the first book that links these two important aspects of smart sensor technology so you don't have to keep multiple references on hand. Also, it informs you of the impact of IEEE 1451 standards to help accelerate and expand your ability to deploy smart sensor technology.

Providing an extensive variety of information for both technical and non-technical professionals, this easy-to-understand, time-saving book covers current and emergent technologies, as well as their practical implementation. It includes all-new chapters on the future of smart sensor applications, and an extensive list of smart sensor acronyms and a glossary.

Contents: Smart Sensor Basics. Micromachining. The Nature of Semiconductor Sensor Output. Getting Sensed Information into the MCU. Using MCUs/DSPs to Increase Sensor IQ. Communications for Smart Sensors. Control Techniques. Transceivers, Transponders, and Telemetry. Microelectromechanical Systems (MEMS) Beyond Sensors. Packaging, Testing, and Reliability Implications for Smart Sensors. Mechatronics and Sensing Systems. Standards for

Smart Sensing. Implications of the Standards. The Next Phase of Sensing Systems.

Randy Frank is Technical Marketing Manager with ON Semiconductor in Phoenix, Arizona. Author of over 200 technical papers, he received his B.S. and M.S. in Electrical Engineering, as well as his M.B.A. in Management, from Wayne State University in Detroit, Michigan. He is a member of the Society of Automotive Engineers and former chairman of its Sensors Standards Committee, and a member of the IEEE and its Sensor Terminology Taskforce.

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### **Detecting foreign bodies in food**

Edited by M Edwards

Foreign bodies are the biggest single source of customer complaints for many food manufacturers, retailers and enforcement authorities. Foreign bodies are any undesirable solid objects in food and range from items entirely unconnected with the food such as glass or metal fragments to those related to the food such as bones or fruit stalks. Detecting foreign bodies in food discusses ways of preventing and managing incidents involving foreign bodies and reviews the range of current methods available for the detection and control of foreign bodies, together with a number of new and developing technologies.

Part 1 addresses management issues, with chapters on identifying potential sources of foreign bodies, good manufacturing practice (GMP), the role of the hazard analysis and critical control point (HACCP) system and how best to manage incidents involving foreign bodies. The book also includes a chapter on the laboratory identification of foreign bodies. Part 2 examines methods for the detection and removal of foreign bodies. There are chapters on existing methods, including metal detection, magnets, optical sorting, X-ray systems and physical separation methods. Other chapters consider research on potential new technologies, including surface penetrating radar, microwave reflectance, nuclear magnetic resonance, electrical impedance and ultrasound.

**Detecting foreign bodies in food** will be a standard reference for all those concerned with ensuring the safety of food.

328 pages 234 x 156mm hardback April 2004 ISBN 1 85573 729 9 **Price:**

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### **Handbook of SOPs for Good Clinical Practice, Second Edition**

**Celine Clive**

- Covers informed consent, drug accountability, regulatory documents, adverse experiences, and IRB responsibilities
- Provides descriptions of the activities which should be accomplished at each type of site visit and templates for the trip reports

- Contains templates for SOPs applicable to sponsors, study sites, and IRBs
- Includes a CD-ROM containing an electronic copy of the SOPs and forms in the handbook

Completely revised and updated, the second edition of a classic reference, Handbook of SOPs for Good Clinical Practice provides templates of SOPs ready for adaptation to your requirements and immediate use. This allows you to create new SOPs or benchmark your existing SOPs against an internationally accepted set of SOPs. The book includes a CD-ROM containing an electronic copy of each of the SOPs and forms in the handbook so that you can easily customize the text to reflect your organization's processes. The author uses language ranging from the specific to the very general, depending on the activity described and the number of the existing regulations governing the activity. This provides you with a starting point for the development of your organization's SOPs, saving you the time and money that would normally be spent researching and documenting each of the procedures described. Modifying the SOPs supplied by this book will be a much more efficient task than developing new ones from scratch. Containing templates for SOPs and forms applicable to sponsors, study sites, and Institutional Review Boards (IRBs), Handbook of SOPs for Good Clinical Practice, Second Edition gives you the tools needed to develop effective SOPs for your organization.

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### **Adobe Illustrator CS Killer Tips**

Dave Cross & Felix Nelson

Short on theory and long on the pithy tidbits that are often relegated to sidebars and notes in more encyclopedic volumes, this short, sweet, full-color volume offers tips, more tips, and nothing but—in the process providing answers to all users' need-to-know questions about Illustrator cs. Veteran users will be able to find the info they need about specific Illustrator cs issues and features (including the brand-new Scribble Effect, hundreds of professionally designed templates, enhanced PDF support, and more), while first-time users will be able to ramp up fast in the areas that interest them most.

Each Killer Tips book is built for the user who wants to get their software-related tasks done quicker, better, more efficiently (and sometimes, with a little fun added). Readers are so often amazed at the hidden features and tricks for productivity buried in the software they're using, and these books show reveal the secrets in the easiest way possible: Simple notes, tips and tricks. The most useful parts of all the other books are the \*only\* thing in a Killer Tips book. Readers of all skill levels will appreciate the creative tips and accessible style of the best-selling Killer Tips series.

Features include:

- Illustrated, stand-alone tips reveal the hidden features and productivity-enhancing tricks that allow users to accomplish more in less time with Illustrator cs.
- Easy-to-browse format lets users find and apply information instantly!
- Includes many tips and techniques that focus on Illustrator cs' new features: 3D extrusion, enhanced type capabilities, expanded print options, and more.

- Over 300 productivity enhancing secrets even a lot of pros don't know about Illustrator CS.

Graphic designers have been waiting a long time for the single, unified design platform for print and Web that Illustrator cs and the rest of the Adobe Creative Suite provide. They've been waiting even longer for a book like this one. Short on theory and long on the pithy tidbits that are often relegated to sidebars and notes in more encyclopedic volumes, this short, sweet, full-color volume offers tips, more tips, and nothing but--in the process providing answers to all users' need-to-know questions about Illustrator cs. Veteran users will be able to find the info they need about specific Illustrator cs issues and features (including the brand-new Scribble Effect, hundreds of professionally designed templates, enhanced PDF support, and more), while first-time users will be able to ramp up fast in the areas that interest them most. Each Killer Tips book is built for the user who wants to get their software-related tasks done quicker, better, more efficiently (and sometimes, with a little fun added). Readers are so often amazed at the hidden features and tricks for productivity buried in the software they're using, and these books show reveal the secrets in the easiest way possible: Simple notes, tips and tricks. The most useful parts of all the other books are the \*only\* thing in a Killer Tips book. Readers of all skill levels will appreciate the creative tips and accessible style of the best-selling Killer Tips series.

Felix Nelson is the Senior Art Director of Photoshop User magazine and is Creative Director for National Association of Photoshop Professionals (NAPP). He's also Art Director of Mac Design magazine and is co-author of the bestselling "Photoshop Killer Tips" books, and an instructor with the Adobe Photoshop Seminar Tour. Dave Cross heads up Education and Curriculum for NAPP; as a trainer, he's taught thousands of users across North America, and is co-author of "Photoshop 7 + Illustrator 10: Create Great Advanced Graphics" and "Photoshop 7 Trade Secrets". He's featured on instructional DVDs and as a writer in Photoshop User Magazine, and is a lead instructor for the Photoshop Seminar Tour.

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