



# **METROLOGY PROGRAM**

## **Resource List**

**May 2009**

**METROLOGY PROGRAM**  
**CGTC Library Resources**  
**May 2009**

**Print Books:**

Basic Metrology for ISO 9000 Certification / G. de Silva.  
TS 156 .D47 2002

Calibration : A Technician's Guide / M. Cable.  
TA 165 .C12 2005

Calibration & Standards, DC-40 GHz / R. Calhoun.  
TK 7878.4 .C33 1994

CCT Primer [Certified Calibration Technician] / P. Stein.  
T 50 .S75 2003

The Data Acquisition Systems Handbook / Omega Engineering, Inc.  
TK 7888.3 .D73 2000

The Electric Heaters Handbook / Omega Engineering, Inc.  
TH 7225 .E537 2000

Electronic Measurement and Instrumentation / K. Klaassen.  
TK 7878 .K51713 1996

Electronic Troubleshooting / D. Tomal.  
TK 7870.2 .T66 2004

Electronic Troubleshooting and Repair Handbook / H. Davidson.  
TK 7870.2 .D377 1995

Electronic Troubleshooting and Servicing Techniques / J. Wilson.  
TK 7870.2 .W5497 1998

Flow, Level and Environmental Handbook / Omega Engineering, Inc.  
TJ 935 .O44 2005

Fundamentals of Dimensional Metrology / C. Dotson.  
T 50 .B8 2006

Fundamentals of Industrial Instrumentation and Process Control / W. Dunn.  
TA 165 .D86 2005

Fundamentals of Instrumentation / NJATC ; T. Stafford.  
T 50 .S73 2008

Fundamentals of Instrumentation and Measurement / D. Placko.  
T 50 .M394 2007

Handbook of Dimensional Measurement / F. Farago.  
T 50 .F36 2007

Industrial Control Handbook / E. Parr.  
TS 156.8 .P24 1998

Industrial Metrology : Surfaces and Roundness / G. Smith.  
TA 418.7 .S55 2002

Instrumentation / F. Kirk.  
TA 165 .K5 2005

Instrumentation for Process Measurement and Control / N. Anderson.  
TS 156.8 .A53 1998

Instrumentation, Measurements, and Experiments in Fluids / E. Rathakrishnan.  
TA 357 .R345 2007

Instruments and Measurements / C. Gilmore.  
TK 7878.4 .G55

Introduction to Instrumentation and Measurements / R. Northrop.  
TK 7870 .N66 2005

Introduction to Instrumentation, Sensors, and Process Control / W. Dunn.  
TS 156.8 .D86 2005

Introduction to Measurement and Calibration / P. Campbell.  
QC 39 .C324 1995

Managing the Metrology System / R. Pennella.  
TS 156.2 .P46 2004

Measurement and Calibration Requirements for Quality Assurance to ISO 9000 / Morris.  
T 50 .M64 1997

Measurement and Control Basics / T. Hughes.  
TS 156.8 .H78 2002

Measurement and Instrumentation Principles / A. Morris.  
TA 165 .M637 2001

Measurement and Instrumentation : Trends and Applications / M. Ghosh.  
T 50 .M43 2008

The Measurement, Instrumentation, and Sensors Handbook / J. Webster.  
QC 39 .M393 1999

Mechanical Measurements / T. Beckwith.  
TA 165 .B38 1993

The Metrology Handbook / The Measurement Quality Division ; J. Bucher, editor.  
T 50 .M423 2004

Metrology Handbook : The Science of Measurement / N. Suga.  
T 50 .S4 2006

Nanoscale Calibration Standards and Methods : Dimensional and Related  
Measurements in the Micro- and Nanometer Range / G. Wilkening.  
TA 418.9 .N35 N34 2005

Optoelectronics / V. Martin.  
TA 1750 .M36 1997 v. 1-3

The Pressure, Strain and Force Handbook / Omega Engineering, Inc.  
QC 271 .P677 2000

Process Control Instrumentation Technology / C. Johnson.  
TS 156.8 .J63 2006

Process/Industrial Instruments and Controls Handbook / G. MacMillan.  
TS 156.8 .P764 1999

The Quality Calibration Handbook : Developing and Managing a Calibration Program /  
J. Bucher.  
T 50 .B75 2007

Sensors and Circuits : Sensors, Transducers, and Supporting Circuits for Electronic  
Instrumentation, Measurement and Control / J. Carr.  
TK 7872 .T6 C375 1993

Surfaces and Their Measurement / D. Whitehouse.  
TA 418.7 .W475 2004

The Temperature Handbook / Omega Engineering, Inc.  
QC 271 .T567 2004

Traceable Temperatures : An Introduction to Temperature Measurement and  
Calibration / J. Nicholas.  
QC 271 .N48 2001

Transactions in Measurement and Control / Omega Engineering, Inc.  
TK 7870 .T657 2000 v.1-4

Troubleshooting : A Technicians Guide / W. Mostia.  
TA 169.5 .M67 2006

Troubleshooting Electronic Devices / J. Goldberg.  
TK 7870.2 .G63 1994

**METROLOGY PROGRAM**  
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**Print Periodical Subscriptions:**

**Control Engineering**

ISSN 0010-8049

**IEEE Spectrum**

ISSN 0018-9235

**Industrial Engineer**

ISSN 1542-894X

**Industry Week**

ISSN 0039-0895

**InTech**

ISSN 0192-303X

**Machine Design**

ISSN 0024-9114

**Manufacturing Engineering**

ISSN 0361-0853

**Modern Machine Shop**

ISSN 0026-8003

**Quality**

ISSN 0360-9936

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**Online Periodical Subscriptions via [GALILEO](#):**

**Control Engineering**

ISSN 0010-8049

EBSCOhost Academic Search Complete  
ProQuest ABI Inform Complete

**Electronic News**

ISSN 1061-6624

EBSCOhost Academic Search Complete

**Electronics Weekly**

ISSN 0013-5224

EBSCOhost Business Source Complete

**IEE Proceedings : Science, Measurement and Technology**

ISSN 1350-2344

EBSCOhost Academic Search Complete

**IEEE Instrumentation & Measurement Technology Conference**

ISSN 1091-5281

<http://ieeexplore.ieee.org/xpl/conferences.jsp>

**IET Science, Measurement & Technology**

ISSN 1751-8822

EBSCOhost Academic Search Complete

**Industry Week**

ISSN 0039-0895

EBSCOhost Academic Search Complete  
ProQuest ABI Inform Complete

**InTech**

ISSN 0192-303X

ProQuest Research Library

**Laser Focus World**

ISSN 1043-8092

EBSCOhost Academic Search Complete

**Machine Design**

ISSN 0024-9114

EBSCOhost Academic Search Complete  
ProQuest Research Library

**Manufacturing Engineering**

ISSN 0361-0853

ProQuest Research Library

**Medical Device Technology**

ISSN 1048-6690

EBSCOhost Business Source Complete  
ProQuest ABI Inform Complete

**Modern Machine Shop**

ISSN 0026-8003

EBSCOhost Business Source Complete  
ProQuest ABI Inform Complete

**Quality**

ISSN 0360-9936

EBSCOhost Business Source Complete  
ProQuest ABI Inform Complete

**RDS Business and Industry Database**

[contains Instrumentation and Control Systems]

LexisNexis Academic General Search

**Semiconductor International**

ISSN 0163-3767

EBSCOhost Academic Search Complete

**Solid State Technology**

ISSN 0038-111X

EBSCOhost Academic Search Complete

**Test & Measurement World**

ISSN 0744-1657

EBSCOhost Business Source Complete  
ProQuest ABI Inform Complete

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**Electronic Books (eBooks) via [NetLibrary](#):**

Adaptive Optics Engineering Handbook / R. Tyson.  
New York Marcel Dekker, Inc., 2000.

Advanced Techniques for Assessment Surface Topography : Development of a Basis  
for 3D Surface Texture Standards / L. Blunt.  
London, Sterling, VA Kogan Page, 2003.

Automated Calibration of Modulated Frequency Synthesizers / D. McMahon.  
Boston Kluwer Academic Publishers, 2002.

Electromagnetic Aquametry : Electromagnetic Wave Interaction With Water and Moist  
Substances / K. Kupfer.  
Berlin, New York Springer Science & Business Media, 2005.

Evaluating the Measurement Uncertainty : Fundamentals and Practical Guidance /  
Philadelphia, Pa. Institute of Physics Publishing, 2002.

Functional Verification Coverage Measurement and Analysis / A. Piziali.  
Boston Kluwer Academic Publishers, 2004.

Handbook of Micrometeorology : A Guide for Surface Flux Measurement and Analysis /  
Dordrecht, Boston, London Kluwer Academic Publishers, 2004.

A History of Light and Colour Measurement : Science in the Shadows / S. Johnston.  
Philadelphia Institute of Physics Publishing, 2001.

International Standards Desk Reference : Your Passport to World Markets, ISO 9000,  
CE Mark, QS-9000, SSM, ISO 14000, Q 9000, American, European, and Global  
Standards Systems / A. Zuckerman.  
New York AMACOM Books, 1997.

Inventing Temperature : Measurement and Scientific Progress / H. Chang.  
Oxford, New York Oxford University Press (US), 2004.

ISO 9000:2000 : An A-Z Guide / D. Hoyle.  
Oxford, Boston Elsevier, 2003.

Measurement and Internal Audit / A. Fight.  
Oxford, England Capstone Publishing Ltd., 2002.

Measurement & Statistics On Science and Technology : 1920 to the Present / B. Godin.  
New York Taylor & Francis Routledge, 2005.

Measurement Uncertainties in Science and Technology / M. Grabe.  
Berlin, London Springer Science & Business Media, 2005.

Methodology for the Digital Calibration of Analog Circuits and Systems / M. Pastre  
Dordrecht Springer Science & Business Media, 2006.

Microscale Diagnostic Techniques / K. Breuer.  
Berlin ; New York Springer Science & Business Media, 2005.

Neural Networks for Instrumentation, Measurement and Related Industrial Applications /  
by S. Ablameyko.  
Amsterdam, Washington, DC, Tokyo IOS Press, 2003.

Optical Methods of Measurement : Wholefield Techniques / by R. Sirohi.  
New York Marcel Dekker, Inc., 1999.

Optical Metrology / K. Gasvik.  
West Sussex, Eng., Hoboken, N.J John Wiley & Sons, Ltd. (UK), 2002.

Quality Assurance : ISO 9000 As a Management Tool / L. Davis.  
Copenhagen Copenhagen Business School Press, 1997.

Radioisotope Gauges for Industrial Process Measurements / G. Johansen.  
Chichester, West Sussex, England, Hoboken, NJ John Wiley & Sons, Ltd. (UK), 2004.

Synthetic Instruments : Concepts and Applications / C. Nadovich.  
Burlington, MA Elsevier, 2005.

Temperature Measurement / L. Michalski.  
Chichester, New York John Wiley & Sons, Ltd. (UK), 2001.

Traceability in Chemical Measurement / P. De Bièvre.  
Berlin, New York Springer Science & Business Media, 2005.

Traceable Temperatures : An Introduction to Temperature Measurement and  
Calibration / by J. Nicholas.  
Chichester, New York John Wiley & Sons, Ltd. (UK), 2001.

Validation in Chemical Measurement / P. De Bièvre.  
Berlin, New York Springer Science & Business Media, 2005.

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**Video/DVD Resources:**

**Precision Measurement Training Series:**

- WPT1001 - Introduction to Measurement and Calibration (CD-ROM)
- WPT1002 - Precision Electrical Measurement (CD-ROM)
- WPT1003 - Precision Temperature Measurement (CD-ROM)
- WPT1004 - Precision Dimensional Measurement (CD-ROM)
- WPT1005 - Precision Pressure and Vacuum Measurement (CD-ROM)

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**Internet Web Sites:**

Cal Lab : The International Journal of Metrology  
[www.callabmag.com](http://www.callabmag.com)

Dimensional Metrology Laboratory at UNC  
[http://www.cpm.uncc.edu/metrology\\_lab/index.htm](http://www.cpm.uncc.edu/metrology_lab/index.htm)

International Association of Forensic and Security Metrology  
[www.iafsm.com](http://www.iafsm.com)

International Comparisons Database (ICDB)  
<http://icdb.nist.gov>

International Laboratory Accreditation Cooperation (ILAC)  
[www.ilac.org](http://www.ilac.org)

International Organization for Standardization (ISO)  
[www.iso.org](http://www.iso.org)

International Organization of Legal Metrology  
[www.oiml.org](http://www.oiml.org)

National Association for Proficiency Testing (NAPT)  
[www.proficiency.org](http://www.proficiency.org)

National Conference of Standards Laboratories International (NCSLI)  
[www.ncsli.org](http://www.ncsli.org)

National Cooperation for Laboratory Accreditation (NACLA)  
<http://nacla.net>

National Institute of Standards and Technology (NIST)  
[www.nist.gov](http://www.nist.gov)

NIST Weights and Measurements Division  
<http://ts.nist.gov/WeightsAndMeasures/index.cfm>

Standards and Calibration Laboratory  
[www.inl.gov/calibration/](http://www.inl.gov/calibration/)

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**Additional Industry Related Web Sites:**

C.A. Motzko & Associates : Sensible Solutions for metrology Management  
[www.motzko.com](http://www.motzko.com)

Digital Measurement Metrology Inc.  
[www.dmm.ca](http://www.dmm.ca)

Fluke Test Tools and Precision Measurement  
<http://us.fluke.com/usen/home/default.htm>

Jaeger Enterprises  
[www.jaegerenterprises.com](http://www.jaegerenterprises.com)

Measurement Science Conference  
[www.mcs-conf.com](http://www.mcs-conf.com)

Metrology Automation  
[www.metrologyautomation.org](http://www.metrologyautomation.org)

Metrology World  
[www.metrologyworld.com](http://www.metrologyworld.com)

Mitutoyo America Corporation  
[www.mitutoyo.com](http://www.mitutoyo.com)

Mitutoyo Institute of Metrology  
<http://www.mitutoyo.com/template1.aspx?id=61>

ThomasNet  
[www.thomasnet.com](http://www.thomasnet.com)

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**Full Text Databases Online via GALILEO :**  
Part of the Database Offerings in [GALILEO](#), Georgia's Virtual Library

**EBSCOhost full-text journal databases:**

[Academic Search Complete](#)  
[Advanced Placement Source](#)  
[Business Source Complete](#)  
[MasterFILE Premier](#)  
[Science and Technology Collection](#)  
[Vocational and Career Collection](#)

**LexisNexis Academic / General Search**

**ProQuest full-text journal databases:**

[ABI Inform Complete](#)  
[Career & Technical Education](#)  
[Research Library](#)

FOR ASSISTANCE accessing any online database, eBook, online journal, or other resource please contact the CGTC Library at: [library@centralgatech.edu](mailto:library@centralgatech.edu).

The CGTC Student Library Handbook provides an overview and step-by-step instruction for the EBSCOhost, ProQuest, and NetLibrary databases at:  
[http://www.centralgatech.edu/library/student\\_library\\_handbook.pdf](http://www.centralgatech.edu/library/student_library_handbook.pdf)