# METROLOGY
## LIBRARY RESOURCES
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**METROLOGY BOOKS, MAGAZINES AND VIDEOS IN THE CGTC LIBRARIES**

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**METROLOGY BOOKS, MAGAZINES AND VIDEOS ONLINE SUBSCRIPTIONS**

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Print Books:

AC/DC Principles / P. Shultz.  
TK 7816 .S458 2007

Advanced Electronic Communications Systems / W. Tomasi.  
TK 5103.7 .T65 2004

All New Electronics Self-Teaching Guide / H. Kybett.  
TK 7868 .D5 K92 2008

Alternating Current Fundamentals / S. Herman.  
TK 1141 .D83 2007

Basic Electronics (Grob's) / M. Schultz.  
TK 7816 .G75 2007

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

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

TK 5103.2 .H377 2000

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

TK 7868 .D5 T65 2008

The Electric Heaters Handbook / Omega Engineering, Inc.  
TH 7225 .E537 2000
TK 7878 .K51713 1996

Electric Motors and Motor Controls / J. Keljik.
TK 2851 .K444 2007

TK 152 .C22 2000

Electricity and Basic Electronics / S. Matt.
TK 146 .M376 2009

Electromechanical Systems and Devices / S. Lyshevski.
TK 6271 .A93 2008

TK 5101 .T625 2004

Electronic Test Instruments : Analog and Digital Measurements / R. Witte.
TK 7878.4 .W593 2002

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

Electronics Fundamentals : Circuits, Devices, and Applications / T. Floyd.
TK 7816 .F57 2010

TK 7816 .S355 2008

TK 7868 .D5 K92 2008

TK 6560 .W39 2000

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

T 50 .M394 2007

Fundamentals of Microwave Transmission Lines / J. Freman.
TK 7876 .F734 1996

TK 6560 .E75 2001

TK 7816 .S356 2007

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

High-Linearity RF Amplifier Design / P. Kenington.
TK 6565 .A55 K45 2000

How to Test Almost Anything Electronic / D. Horn.
TK 7878 .H67 1993

The Illustrated Dictionary of Electronics / S. Gibilisco.
Ref TK 7804 .G497 2001

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

Industrial Electronics : Devices and Systems / D. Patrick.
TK 7881 .P38 2000

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

Instrumentation / F. Kirk.
TA 165 .K5 2005
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

Introduction to Statistical Quality Control / D. Montgomery.
TS 156 .M64 2001

Introduction to Wireless Systems / B. Black.
TK 5103.2 .I62 2008

Introductory DC/AC circuits / N. Cook.
TK 7816 .C65 2005

TS 156 .H692 2006

Low-Cost Test Equipment Projects You Can Build / D. Horn.
TK 9965 .H69 1992

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

Mathematics for Electricity and Electronics / A. Kramer.
TK 153 .K725 2006

TK 7878.4 .L4514 1994

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

T 50 .M43 2008

QC 39 .M393 1999

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

T 50 .M423 2004

T 50 .S4 2006

Microwave and RF Wireless Systems / D. Pozar.
TK 5103.2. P59 2001

Modern Control Systems / S. Tripathi.
TJ 213 .T66 2008

Modern Control Technology : Components and Systems / C. Kilian.
TJ 213 .K516 2000

Modern Electronic Communication / G. Miller.
TK 5101 .M498 1996

Nanoscale Calibration Standards and Methods : Dimensional & Related Measurements
TA 418.9 .N35 N34 2005

Occupational Safety and Health for Technologists, Engineers, and Managers / D. Goetsch.
T 55 .G586 2008

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

TK 7870.2 .P35 1997
TK 7867 .S5393 2007

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

TK 454 .F56 2010

TK 454 .F57 2010

TK 5101 .F664 2008

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

TS 156.8 .P764 1999

T 50 .B75 2007

RF Circuit Design : Theory and Applications / R. Ludwig.
TK 6553 .L823 2009

Schaum's Outline of Theory and Problems of Analog and Digital Communications /
TK 5102.5 .H48 1993

Secrets of RF Circuit Design / J. Carr.
TK 6560 .C37 2001

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

TK 5103.2 .B45 2000

SPC Simplified for Services : Practical Tools for Continuous Quality Improvement /
HD 9980.5 .A57 1991

Statistical Quality Control / E. Grant.
TS 156 .G7 1988
Statistical Quality Control / M. Chandra.
TS 156 .C4245 2001

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

TAB Electronics Guide to Understanding Electricity and Electronics / G. Slone.
TK 7816 .S57 2000

Teach Yourself Electricity and Electronics / S. Gibilisco.
TK 7819 .G38 2006

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

Test Instruments / G. Mazur.
TK 7878 .M38 2005

Tools of Total Quality : An Introduction to Statistical Process Control / P. Lyonnet.
TS 156.8 .L9613 1991

QC 271 .N48 2001

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

TA 169.5 .M67 2006

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

Troubleshooting Electronic Equipment / R. Khandpur.
TK 7870.2 .K53 2007
Print Magazine Subscriptions:

**Control Engineering**  
ISSN 0010-8049

**ECN: Electronic Component News**  
ISSN 1523-3081

**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

**Quality Management Journal**  
ISSN 1068-6967

**Quality Progress**  
ISSN 0033-524X
CD/DVD Resources:

**Precision Measurement Training Series:** CD-ROM

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

**Electricity and Electronics Training Series:** DVD

1. Electrical Principles
2. Electrical Circuits: Ohm’s Law
3. Electrical Components Part I: Resistors, Batteries, and Switches
4. Electrical Components Part II: Capacitors, Fuses, Flashers, and Coils
5. Electrical Components Part III: Transformers, Relays, and Motors
6. Electronic Components Part I: Semiconductors, Transistors, and Diodes
7. Electronic Components Part II: Operation – Transistors and Diodes
9. Electrical Troubleshooting
10. Electronic Circuit Repair
Online Magazine Subscriptions via GALILEO:

Control Engineering
ISSN 0010-8049
EBSCOhost Academic Search Complete
ProQuest ABI Inform Complete

Electronic Design
ISSN 0013-4872
ProQuest Career and Technical Education

Electronic News
ISSN 1061-6624
EBSCOhost Academic Search Complete

Electronics Weekly
ISSN 0013-5224
EBSCOhost Business Source Complete

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

Instrumentation Science & Technology
ISSN 1073-9149
EBSCOhost Academic Search Complete

Journal of Electronic Testing
ISSN 0923-8174
ProQuest Telecommunications
[ProQuest Upgrade Package]

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
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<td>Medical Device Technology</td>
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<td>ProQuest ABI Inform Complete</td>
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<td>Modern Machine Shop</td>
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<td>ProQuest ABI Inform Complete</td>
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<td>ProQuest Career and Technical Education</td>
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<td>ProQuest Career and Technical Education</td>
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<td>ProQuest ABI Inform Complete</td>
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<td>Solid State Technology</td>
<td>EBSCOhost Academic Search Complete</td>
<td>ProQuest ABI Inform Complete</td>
</tr>
<tr>
<td>Technology &amp; Business Journal</td>
<td></td>
<td>ProQuest Career and Technical Education</td>
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<tr>
<td>Test &amp; Measurement World</td>
<td>EBSCOhost Business Source Complete</td>
<td>ProQuest ABI Inform Complete</td>
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Electronic Books (eBooks) via eBooks on EBSCOhost:


Electronic Engineering / J. Aldred.

Electronic Materials Science / E. Irene.

Electronics Demystified / S. Gibilisco.

Electronic Materials Science / E. Irene.

Encyclopedia of Physical Science / J. Rosen.


Functional Verification Coverage Measurement and Analysis / A. Piziali.

Fundamentals of Electrical Control / C. Phipps.


High-speed Circuit Board Signal Integrity / S. Thierauf.


How Electronic Things Work -- And What to Do / R. Goodman.

Integrated Circuit Quality and Reliability / E. Hnatek.
Introduction of Microelectromechanical Microwave Systems / H. Santos.

International Standards Desk Reference : ISO 9000, CE Mark, QS-9000, SSM, ISO
14000, Q 9000, American, European, and Global Standards Systems / A. Zuckerman.


Make and Test Projects in Engineering Design / A. Samuel.

Materials for Engineering / J. Martin.


Measurement and Internal Audit / A. Fight.


Measurement Uncertainties in Science and Technology / M. Grabe.

Methodology for the Digital Calibration of Analog Circuits and Systems / M. Pastre

Micromanufacturing and Nanotechnology / 

Microscale Diagnostic Techniques / K. Breuer.

Modern Communications Receiver Design and Technology / C. Drentea.

Molecular Diagnostics: Fundamentals, Methods, & Clinical Applications / Buckingham.

Nanotechnology Demystified / L. Williams.


Optical Metrology / K. Gasvik.


Practical Telecommunications and Wireless Communications / E. Wright.

Practical Troubleshooting of Electrical Equipment and Control Circuits / M. Brown.


Quality Assurance: ISO 9000 As a Management Tool / L. Davis.


Reporting Results: A Practical Guide for Engineers and Scientists / D. Van Aken.

RF Power Amplifiers for Wireless Communication / S. Cripps.


Online Videos via FILMS ON DEMAND:

To access FILMS ON DEMAND:

1. Go the CGTC Library Services website: www.centralgatech.edu/library
2. Select the FILMS ON DEMAND graphic
3. Select “Collections” from the top horizontal menu
4. Select “Technical and Trade Education” from the Collections drop down menu
5. Scroll down to “Engineering Technology” to view & select video categories like:
   - “Electricity and Electronics”
   - “General Engineering & Mechanics”
   - “Mechanical, Manufacturing & Materials’ and other topics relevant to Metrology

Off-Campus Users will be prompted for a GALILEO password after step “2.” above.
To obtain the GALILEO Password:

1. Send an email to library@centralgatech.edu
2. In the email subject line put “GALILEO Password Request”
3. In the body of the email type your CGTC Student ID# and name and send

*Alternate, direct access to FILMS ON DEMAND from Off-Campus:

1. Go to: http://digital.films.com
2. Enter the following “User ID/Email” and “Password” info (in all lowercase letters) and then click the Login button:
   - User ID/Email: cgtc
   - Password: library
**Metrology Associations, Organizations, Standards:**

Cal Lab: The International Journal of Metrology  
www.callabmag.com

Calibration Technician Certification Reference Sources  
http://asq.org/certification/calibration-technician/references.html

Dimensional Metrology Laboratory at UNC  
http://www.cpm.uncc.edu/metrology_lab/index.htm

IAS Policy Guide on Calibration, Traceability and Measurement of Uncertainty  
www.iasonline.org/Calibration_Laboratories/policy_guide.pdf

Instrumentation and Measurement Technology Conference, IEEE  

International Accreditation Service, Inc. (IAS)  
www.iasonline.org

International Association of Forensic and Security Metrology (IAFSM)  
www.iafsm.com

International Bureau of Weights and Measurements (BIPM)  
www.bipm.org/en/home

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

International Laboratory Accreditation Cooperation (ILAC)  
www.ilac.org

International Organization for Standardization (ISO)  
www.iso.org

International Organization of Legal Metrology  
www.oiml.org

International Society of Automation (ISA) [Instrumentation, Systems & Automation Society]  
www.isa.org
Laboratory Accreditation Bureau (LAB)
www.l-a-b.com

National Association for Proficiency Testing (NAPT)
www.proficiency.org

National Conference of Standards Laboratories International (NCSLI)
www.ncsli.org

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

National Institute of Standards and Technology (NIST)
www.nist.gov

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

Standards and Calibration Laboratory
www.inl.gov/calibration/

Useful Metrology Links (at Cal Lab)
www.callabmag.com/metrologylinks.html
Business & Industry Websites related to Metrology:

Digital Measurement Metrology Inc.
www.dmm.ca

Dynamic Technology [Metrology Services Provider]
www.dynamictechnology.com

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

Hart Scientific Temperature and Thermometer Calibrators
www.hartscientific.com

Measurement Science Conference
www.mcs-conf.com

measureup : The Hexagon Metrology Magazine

Metrology Automation
www.metrologyautomation.org

Metrology World
www.metrologyworld.com

Mitutoyo America Corporation
www.mitutoyo.com

Mitutoyo Institute of Metrology

Quality Manufacturing Today [coverage includes Metrology and Measurements Technology]
www.qmtmag.com

Sensible Solutions for Metrology Management [Motzko & Associates]
www.motzko.com

ThomasNet
www.thomasnet.com
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

ProQuest full-text journal databases:
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  Career & Technical Education
  Research Library

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