

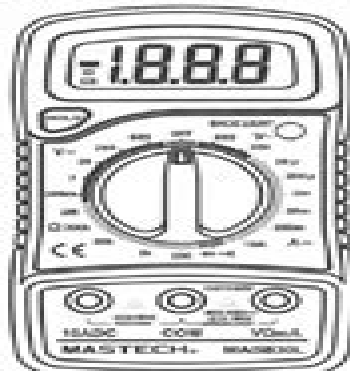
MASTECH® MASTECH® MASTECH® MASTECH®

Series Digital Multimeter

Instruction Manual

for

MA5030 MA5030B MA5030L MA5030S



01

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Introduction

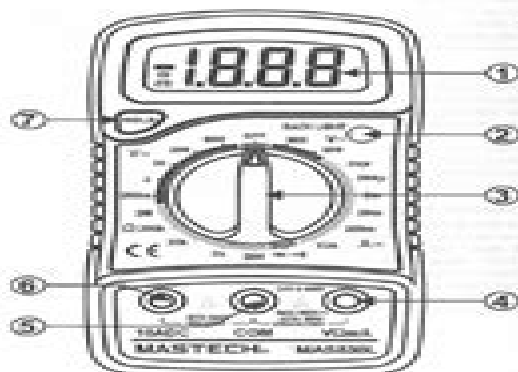
The instrument of this series is a small hand-held 3 1/2-digit multimeter featuring stable, highly reliable and anti-drop performance. It is provided with a LCD display of 15 mm height for clear reading. The circuit design takes LSI double integrated A/D converter as its core under the protection of an overload protection circuit, making it a superior and handy instrument. It can be used to measure DC and AC voltage, DC current, resistance, diodes, transistors, temperature and for in-circuit continuity test.

Measurement features of the types of this series:

Features	MAS 5030	MAS 5030B	MAS 5030L	MAS 5030S
Alternating Voltage measurement V_{AC}	•	•	•	•
Direct Voltage measurement V_{DC}	•	•	•	•
Direct current measurement A_{DC}	•	•	•	•
Resistance measurement Ω	•	•	•	•
Diode measurement \rightarrow	•	•	•	•
Temperature measurement $^{\circ}C$				•
On-off measurement \rightarrow	•		•	•
Data hold	•	•	•	•
Backlight			•	

MASTECH®

FRONT PANEL



02

MASTECH®

Safety Information

MA5030B, MA5030L, MA5030S and MA5030S Digital Multimeters are designed based on FCCG1010-500V (CAT II) and pollution degree 2. To ensure the safe and accurate use, please read the instruction manual carefully.

Safety Signs

	Important safety information. Read the manual.
	High voltage with danger.
	Ground.
	Double insulation (Class II safety equipment).
	Fuse must be replaced as per the specification herein.

Notices

- The instrument can only be used in conjunction with the probe for the compliance with safety standards. If the probe needs replacing due to damage, the replacement must be of the same type or the same electrical specifications.
- Do not exceed the input limits specified for each range.
- When the instrument is measuring, do not touch the input terminal not in use.
- When a measurement range is uncertain, turn the function/range switch to the maximum range position.
- Before turning the function/range switch, make sure the probe is open with the circuit being measured.
- Before on-line resistance measurement, turn off all power and discharge all capacitors.
- Be careful when taking measurement of voltage higher than 50V DC/30V A.C. Remember to keep your fingers behind the hand shield of the probe.
- When measuring a TV set or switch power supply, watch for pulse in the circuit that may damage the multimeter.
- Before measuring any transistor, make sure the probe is not connected to any circuit being measured.

03

Mastech 345 User Guide

**Kirby I. Bland, Edward M. Copeland, V.
Suzanne Klimberg**



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Film Reference Guide for Medicine and Allied Sciences ,1961

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Film Reference Guide for Medicine and Allied Sciences ,1961

Evidence-Based Surgery Achilles Thoma,Sheila

Sprague,Sophocles H. Voineskos,Pablo E. Serrano,Charles H. Goldsmith,2025-06-27 Now in a revised second edition this book is a comprehensive guide to teach surgeons surgical fellows and surgical residents regardless of their specialty the skills to appraise what they encounter in the surgical literature Surgeons need to be able to understand what they read before applying the conclusions of a surgical article to their practice As most surgeons do not have the extra training in health research methodology understanding how the research was done how to interpret the results and finally deciding to apply them to the patient level can be a difficult task Chapters included here explain the methodological issues pertaining to the various study designs reported in the surgical literature Readers are taught how to search the literature for the best evidence that will answer the surgical problem under discussion An identified article that seems relevant to the problem under investigation can be appraised by addressing three key questions 1 Is the study I am reading valid 2 what are the results of this study and 3 can I apply these results to my patients Chapters new to this edition discuss cluster RCTs network meta analyses enhanced recovery after surgery ERAS and core outcome sets COS While the primary goal of Evidence Based Surgery is to teach surgeons how to appraise the surgical literature an added benefit is that the concepts explained here may help research minded surgeons produce higher quality research **A+ Guide to Software** Jean Andrews,2003 This book is designed to be the most thorough step by step resource available for learning the fundamentals of supporting and troubleshooting operating systems It also maps fully to CompTIA s 2003 A OS Exam Back cover Complete Guide to Pain Relief Reader's Digest Association (Canada),2000 Security Owner's Stock Guide Standard and Poor's Corporation,2009

Regional Industrial Buying Guide ,2000

Modern Electrics and Mechanics ,1914

Breast Reconstruction Melvin

A. Shiffman,2015-10-30 This book written by leading international experts in the field offers a comprehensive overview of the latest developments in breast reconstruction A particular feature is the presentation of a multitude of new clinical techniques with high quality supporting illustrations The opening sections document the history of breast reconstruction describe the anatomy of the pectoral muscles pectoral nerves and perforator flaps and provide guidance on preoperative imaging and planning After full documentation of techniques including use of autogenous tissues and prosthetic implants further sections are devoted to the effects of chemotherapy and radiation the role of angiography and thermography monitoring quality of life outcomes and complications and their management The book will be invaluable both for residents and fellows and for practicing and highly experienced cosmetic surgeons plastic surgeons general surgeons and those in cosmetic surgical subspecialties The Breast E-Book Kirby I. Bland,Edward M. Copeland,V. Suzanne Klimberg,2009-09-09 The Breast Comprehensive Management of Benign and Malignant Diseases 4th Edition by Kirby I Bland MD and Edward M Copeland III

MD is a surgical reference that offers the most comprehensive up to date resource on the diagnosis and management of and rehabilitation following surgery for benign and malignant diseases of the breast With its multidisciplinary approach sweeping updates new contributors and authoritative guidance you ll have exactly what you need to inspire patient confidence and provide the best possible outcomes Features multidisciplinary advice from experts in surgery radiation and medical oncology pathology molecular biology pharmacokinetics and genetics for a well rounded perspective to enhance patient outcomes Includes more than 1 500 figures and tables that offer high quality depictions of surgery and treatment procedures Offers step by step guidance through both text and clinical boxes that makes the material relevant to everyday practice Provides cross referencing between chapters as well as references to carefully selected journal articles that makes further research easier Uses a new full color design to highlight key areas of the text and help you focus on important concepts Presents updated coverage including an expanded section on pathology and new chapters on granular cell tumors targeted therapies integration of radiotherapy and chemotherapy to keep you current Includes revised chapters on the psychosocial consequences of breast cancer lifestyle interventions for breast cancer patients and patient and family resources that equip you to offer complete and compassionate care Provides additional information on genetics to keep you up to date with the latest genetic discoveries linked to breast cancer and breast diseases Features the work of many new contributors who provide the latest and freshest perspectives

Popular Electricity and Modern Mechanics ,1914 [Oncoplastic and Reconstructive Breast Surgery](#) Cicero Urban,Mario Rietjens,Mahmoud El-Tamer,Virgilio S. Sacchini,2019-06-08 This book demonstrates why oncoplastic and reconstructive surgery represents such an exciting tool for surgeons who undertake breast surgery Fundamental principles and basic concepts are clearly outlined and numerous techniques are presented by acknowledged experts from across the world The emphasis is very much on a how to do approach with detailed guidance and advice on the various techniques The informative text is supported by a wealth of color illustrations and accompanying videos of procedures can be accessed via the publisher s website This second edition of [Oncoplastic and Reconstructive Breast Surgery](#) has been completely revised and updated More than 25 additional chapters have been included and new videos of surgeries made available with the aim of making this already very successful book truly comprehensive and the most complete reference on the subject a true classic The new edition entails close collaboration between some of the most important centers for breast cancer treatment and research worldwide It will be an ideal resource for surgical fellows and specialists wishing to learn about indications and the selection of patients to master technical skills and to manage complications effectively

Journal of the National Cancer Institute ,2010 [Breast Cancer Radiation Therapy](#) Orit Kaidar-Person,Icro Meattini,Philip Poortmans,2022-08-01 The book provides in a comprehensive yet concise way essential information to improve the knowledge and skills of all healthcare providers involved in the treatment of patients with breast cancer The content does not focus on general information that is widely available via different sources but on technical

aspects hands on daily practices and principles of radiation oncology that are not included in other books Drawing on information taught in courses at e g the ESTRO School as well as the authors broad clinical experience the respective contributions reflect and share the expertise of leading experts in breast cancer radiation therapy supported by sound data and evidence Each chapter includes a short introduction summarizing the evidence in the literature and pearls a short bullet point summary and is enriched by tables figures and illustrations to provide a concise easy to follow and appealing overview The book containing also useful electronic supplementary material will be of interest to a wide range of readers including radiation oncologists radiation technicians medical physicists and others involved in breast cancer care **Thomas**

Register of American Manufacturers and Thomas Register Catalog File ,1996 Vols for 1970 71 includes manufacturers catalogs **THOMAS REGIONAL INDUSTRIAL BUYING GUIDE NORTHERN CALIFORNIA 2004** , **D&B Million**

Dollar Directory ,1998 **National Union Catalog** , Includes entries for maps and atlases **Oncology Nursing**

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make your preliminary core choice based upon the power requirements of the application the switching topology and the frequency ferrite cores are the best choice for high frequency applications for operation below 500 khz most designers will use a core material with a permeability of 2000 to 2500 see more

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