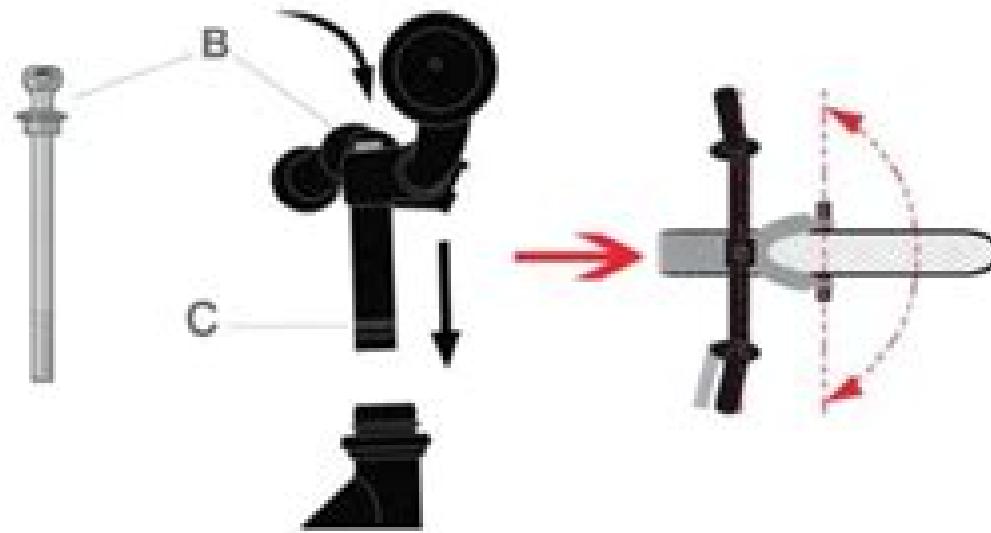


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# Air Balance Manual

**United States. Federal Aviation  
Administration**

## Air Balance Manual:

Testing and Balancing HVAC Air and Water Systems Samuel C. Sugarman,2000 This fully revised and updated edition of this classic best selling reference provides all the information you will need to evaluate and balance the air and water sides of any HVAC system The third edition adds new chapters on testing and balancing clean rooms and HVAC system commissioning Every aspect of testing adjusting and balancing is addressed including all types of instruments required and specific methods to adjust constant volume single zone dual duct induction and variable air volume systems Complete details are provided for the full scope of system components including fans pumps motors drives and electricity as well as for balancing devices and instrument usage All needed equations and a variety of useful conversion tables are included

**Handbook of Air Conditioning, Heating, and Ventilating** Eugene Stamper,Richard L. Koral,1979 This comprehensive and acclaimed volume provides a wealth of practical information on the design installation and operation of air conditioning heating and ventilating systems *HVAC Testing, Adjusting, and Balancing Field Manual* John Gladstone,W. David Bevirt,1996-12-22 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Take Advantage of the Latest Guidance on the Hottest Area in HVAC As health problems related to poor indoor air quality become increasingly evident demand for better quality and efficiency in air systems is skyrocketing making HVAC testing adjusting and balancing TAB the fastest growing HVAC discipline Here is a practical nuts and bolts manual devoted to this specialty now revised and updated with new information about such vital topics as Indoor air quality Energy recovery systems Fan surge Duct leakage System performance Temperture control verification And more You ll also find new chapters on systems balancing controls clean rooms sound vibration and solutions to TAB problems as well as a chapter with a model standard for TAB cost estimating Sponsored by the National Environmental Balancing Bureau the book s clear step by step explanations will help you understand and meet requirements for testing measuring adjusting balancing troubleshooting and cost estimating TAB function for tall buildings restaurants hospitals and other institutional settings **ASHRAE Handbook ,1987** Testing and Balancing HVAC Air and Water Systems, Fifth Edition Samuel C. Sugarman,2020-11-26 Thoroughly revised this book provides the reader with an understanding of the principles and practices of testing and balancing TAB heating ventilating and air conditioning HVAC air and water systems For the novice and the experienced testing and balancing technician it is a field reference book of procedures equations and information tables Divided into five parts Part I has general and specific balancing procedures for constant air volume systems variable air volume systems return air systems and fans and fan performance Part II covers testing and balancing fume hood systems and cleanrooms commissioning HVAC systems centrifugal pumps and pump performance analog and digital controls and water balancing procedures using flow meters system components and temperatures Part III covers fans pumps air distribution water distribution motors electrical fluid

flow psychrometrics refrigeration and instrument usage and care Part IV includes equations and tables New to this edition Part V has information and additional test and balance procedures and graphics for chapters 1 7 and 13 14 TAB Data and Test forms are in the new addendum as well Provides the readers with revised information about the principles and practices of testing and balancing TAB heating Represents a field reference guide for both the novice and experienced testing and balancing technician Includes a new section with information and additional test and balance procedures and graphics

**Manuals Combined: 150+ U.S. Army Navy Air Force Marine Corps Generator Engine MEP APU Operator,**

**Repair And Parts Manuals ,** Over 36 000 total pages Just a SAMPLE of the CONTENTS by File Number and TM Number 013511 TM 5 6115 323 24P 4 GENERATOR SET GASOLINE ENGINE DRIVEN SKID MOUNTED TUBULAR FRAME 1 5 K SINGLE PHASE AC 120 240 V 28 VDC LESS ENGINE DOD MODELS MEP 015A 60 HZ NSN 6115 00 889 1446 AND DOD MODEL MEP 025A 28 VDC 6115 00 017 8236 TO 35C2 3 385 4 SL 4 07609A 07610A 013519 TM 5 6115 329 25P 1 GENERATOR SET GASOLINE ENGINE DR LESS ENGINE 0 5 KW AC 120 240 V 60 HZ 1 PHASE DOD MODEL FSN 6115 923 4469 400 HZ MODEL MEP 019A 6115 940 7862 AN DC MODEL MEP 024A 6115 940 7867 TO 35C2 3 440 14 013537 TM 5 6115 457 12 7 GENERATOR SET ENGINE DRIVEN TACTICAL SKID MTD 100 KW 3 PHASE 4 WIRE 120 240 416 V DOD MODELS MEP 007A UTILITY CLASS 50 60 HZ NSN 6115 00 133 9101 MODEL MEP 106A PRECISE CLASS 50 60 H 6115 00 133 9102 MODEL MEP 116A PRECISE CLASS 400 KW 6115 00 133 9103 INCLUDING OPTIONAL KITS MODEL MEP 007 AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 9082 MEP 007AWE WINTERIZATION KIT ELECTRIC 6115 00 463 9084 MODEL MEP 007A DUMMY LOAD KIT 6115 00 463 9086 AND MODEL MEP 007AWM WHEEL 013538 TM 5 6115 457 34 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID 100 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MODELS MEP0 UTILITY CLASS 50 60 HZ NSN 6115 00 133 9101 MODEL MEP106A CLASS 50 60 HZ 6115 00 133 9102 AND MODEL MEP116A PRECISE 400 HZ 6115 00 133 9103 INCLUDING OPTIONAL KITS DOD MODELS MEP007AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 9082 MEP007AWE WINTERIZATION KIT ELECTRIC 6115 00 463 9084 MOD MEP007ALM DUMMY LOAD KIT 6115 00 463 9086 AND MODEL MEP007A MOUNTING KIT 6 013540 TM 5 6115 458 24P 9 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 2 KW 3 PHASE 4 WIRE 120 208 AND 240 416 VOLTS DOD MODELS MEP009A UTILITY CLASS 50 60 HZ NSN 6115 00 133 9104 AND MODEL MEP108A PRECISE CLASS 50 60 HZ 6115 00 935 8729 INCLUDING OPTIONAL K DOD MODELS MEP009AWF WINTERIZATION KIT FUEL BURNING 6115 00 403 3761 MODEL MEP009AWE WINTERIZATION KIT ELECTRIC 6115 00 489 7285 013545 TM 5 6115 465 12 19 GENERATOR DIESEL ENGINE DRIVEN TACTICAL SKID MTD 30 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MODEL MEP 005A UTILITY CLASS 50 6 NSN 6115 00 118 1240 MODEL MEP 104A PRECISE CLASS 50 60 6115 00 118 1247 MODEL MEP 114A PRECISE CLASS 400 HZ 6115 00 118 1248 INCLUDING AUXILIARY EQUIPMENT DOD MODEL MEP WINTERIZATION KIT FUEL BURNING 6115 00 463 9083 MODEL MEP WINTERIZATION KIT ELECTRIC 6115 00 463

9085 MODEL MEP 005A LOAD BANK KIT 6115 00 463 9088 AND MODEL MEP 005AWM WH 013547 TM 5 6115 465 34 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTIC SKID MTD 30 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MO MEP 005A UTILITY 50 60 HZ NSN 6115 00 118 1240 MODEL MEP 104A PRECISE 50 60 HZ 6115 00 118 1247 MODEL MEP 114 PRECISE 50 60 HZ 6115 00 118 1248 INCLUDING OPTIONAL KITS MODEL MEP 005AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 MODEL MEP 005AWE WINTERIZATION KIT ELECTRIC 6115 00 463 908 MODEL MEP 005ALM LOAD BANK KIT 6115 00 463 9088 MODEL MEP WHEEL MOUNTING KIT 6115 00 013548 TM 5 6115 545 12 18 GENERATOR DIESEL ENGINE DRIVEN TACTICAL SKID MTD 60 KW 3 PHASE 4 WIR 120 208 AND 240 416 VOLTS DOD MODEL MEP 006A UTILITY CLASS 5 NSN 6115 00 118 1243 DOD MODEL MEP 105A PRECISE CLASS 50 60 6115 00 118 1252 DOD MODEL MEP 115A PRECISE CLASS 400 HZ 6115 00 118 1253 INCLUDING OPTIONAL KITS DOD MODEL MEP006AWF WINTERIZATION KIT FUEL BURNING 6115 00 407 8314 DOD MODEL MEP006AWE WINTERIZATION KIT ELECTRIC 6115 00 455 7693 DOD M MEP006ALM LOAD BANK KIT 6115 00 407 8322 DOD MODEL MEP006 013550 TM 5 6115 545 34 12 INTERMEDIATE FIELD DIRECT AND GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL FOR GENERATOR SET DIESEL ENGINE DRIVEN TAC SKID MTD 60 KW 3 PHASE 4 WIRE 120 208 AND 240 416 VOLTS DOD MODELS MEP 006A UTILITY CLASS 50 60 HZ FSN 6115 118 1243 MEP 105A PRECISE CLASS 50 60 HZ 6115 118 1252 AND MEP 115A PRECISE CLASS 400 HZ 6115 118 1253 TO 35C2 3 444 2 NAVFAC P 8 626 34 TM 00038G 35 015378 TM 5 6115 323 14 10 GENERATOR GASOLINE ENGINE DRIVEN SKID MOUNTED TUBULAR FRAME 1 5 KW SI PHASE AC 120 240 V 28 V DC LESS ENGINE DOD MODELS MEP 01 60 HZ NSN 6115 00 889 1446 AND MODEL MEP 025A 28 V DC 6115 00 017 8236 TO 35C2 3 385 1 015380 TM 5 6115 332 24P 3 GENERATOR GASOLINE ENGINE AIR COOLED 5 KW AC 120 240 V SINGLE PHASE 120 208 V 3 PHASE SKID MOUNTED TUBULAR FRAME LESS ENGINE M DESIGN 60 HZ DOD MODEL MEP 017A NSN 6115 00 017 8240 400 DOD MODEL MEP 022A 6115 00 017 8241 TO 35C2 3 424 24 020611 LO 5 6115 457 12 GENERATOR SET DIESEL ENGINE DRIVEN SKID MTD 100 KW 3 PHASE 120 208 AND 240 416 V DOD MODELS MEP 007A UTILITY CLASS 50 NSN 6115 00 133 9101 MODEL MEP 106A PRECISE CLASS 50 60 H 6115 00 133 9102 AND MODEL MEP 116A PRECISE CLASS 400 HZ 6115 00 133 9103 020612 LO 5 6115 458 12 GENERATOR SET DIESEL ENGINE DRIVEN SKID MTD 200 KW 3 PHASE 4 WIRE 120 208 416 VOLTS DOD MODELS MEP 009A UTILITY CLASS 50 60 HERTZ NSN 6115 00 133 9104 MEP 108A PRECISE CLASS 50 HERTZ 6115 00 935 8729 LO 07536A 12 020614 LO 5 6115 465 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MOUNTED 30 3 PHASE 4 WIRE 120 206 AND 240 416 V DOD MODEL MEP 055A UT CLASS 50 60 HZ NSN 6115 00 118 1240 MODEL MEP 104A PRECI CLASS 50 60 HZ 6115 00 118 1247 AND MODEL 114A PRECISE CLA 400 HZ 6115 00 118 1248 025150 TM 5 6115 271 14 12 GENERATOR SET GASOLINE ENGINE DRIVEN S MTD TUBULAR FRAME 3 KW 3 PHASE AC 120 208 AND 120 240 V 2 DC LESS ENGINE DOD MODEL MEP 016A 60 HZ NSN 6115 00 017 823 MODEL MEP 016C 60 HZ 6115 00 143 3311 MODEL

MEP 021A 400 HZ 6115 00 017 8238 MODEL MEP 021C 400 HZ 6115 01 175 7321 MODEL MEP 026A DC HZ 6115 00 017 8239 MODEL MEP 026C 28 V DC 6115 01 175 7320 TO 35C2 3 386 1 TM 05926A 14 NAVFAC P 8 6 025151 TM 5 6115 271 24P 3 GENERATOR SET GASOLINE ENGINE DRIVEN SKID MOUNTED TUBULAR FRAME 3 KW 3 PHASE AC 120 208 AND 120 240 VOLTS 28 VDC LE ENGINE DOD MODEL MEP 016A 60 HERTZ NSN 6115 00 017 8237 MEP 021A 400 HERTZ 6115 00 017 8238 MEP 026A 28 VDC HERTZ 6115 00 017 8239 MEP 016C 60 HERTZ 6115 01 143 3311 MEP 400 HERTZ 6115 01 175 7321 MEP 026C 28 VDC HERTZ 6115 01 175 7320 TO 35C2 3 386 4 SL 4 05926A 032507 TM 5 6115 275 14 10 GENERATOR SET GASOLINE ENGINE DRIVEN SKID MOUNTED TUBULAR FRAME 10 KW AC 120 208V PHASE AND 120 240V SINGLE PHASE LESS ENGINE DOD MODELS MEP HZ NSN 6115 00 889 1447 AND MEP 023A 400 HZ 6115 00 926 08 NAVFAC P 8 615 14 TO 35C2 3 452 1 THIS ITEM IS INCLUDED ON EM 0086 EM 0088 D MEP 018A UTILITY CLASS 60 HZ NSN 6115 00 889 1447 AND MEP 0 PRECISE CLASS 400 HZ 6115 00 926 0843 NAVFAC P8 615 24P TO 35C2 3 452 4 THIS ITEM IS INCLUDED ON EM 0086 EM 0088 1 PHASE 3 WIRE 3 PHASE 4 WIRE 120 120 240 AND 120 208 V DOD MODEL MEP 002A UTILITY CLASS 60 HZ NSN 6115 00 465 1044 NAVFAC P 8 622 12 TO 35C2 3 456 1 TM 05682C 12 032640 TM 5 6115 585 12 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 10 KW 1 PHASE 2 WIRE 1 PHASE 3 WIRE AND 3 PHASE 4 WIRE 120 120 240 AND 120 208 V DOD MODEL MEP 003A UTILITY CLASS 60 HZ NSN 6115 00 465 1030 AND MODEL MEP 112A UTILITY CLASS 400 HZ 6115 00 465 1027 NAVFAC P 8 623 12 TO 35C2 3 455 1 TM 05684C 05685B 12 032781 TM 5 6115 584 34 8 GENERATOR SET DIESEL ENGINE DRIVEN TAC SKID MOUNTED 5 KW 1 PHASE 2 WIRE 1 PHASE 3 WIRE 3 PHASE 120 120 240 AND 120 208 V DOD MODEL MEP 002A UTILITY CLASS NSN 6115 00 465 1044 NAVFAC P 8 622 34 TO 35C2 3 456 2 TM 0568C 34 032936 TM 5 6115 329 14 4 GENERATOR SET GASOLINE ENGINE DRIVEN 0 5 KW LESS ENGINE DOD MODEL MEP 014 UTILITY CLASS 60 HZ NSN 6115 00 923 4469 DOD MODEL MEP 01 UTILITY CLASS 400 HZ 6115 00 940 7862 AND DOD MODEL MEP 024 UTILITY CLASS 28 VDC 6115 00 940 7867 TO 35C2 3 440 1 033374 TM 5 6115 332 14 10 GENERATOR SET TAC GASOLINE ENGINE AIR COOLED 5 KW AC 120 240 V SINGLE PHASE V 3 PHASE SKID MOUNTED TUBULAR FRAME LESS ENGINE MILITARY DOD MODEL MEP 017A UTILITY 60 HZ NSN 6115 00 017 8240 AND MODEL MEP 022A UTILITY 400 HZ 6115 00 017 8241 NAVFAC P 8 614 14 TO 35C2 3 424 1 033750 TM 5 6115 585 34 9 GENERATOR SET DIESEL ENGINE DRIVEN TAC SKID MOUNTED 10 KW 1 PHASE 2 WIRE 1 PHASE 3 WIRE 3 PHASE 4 WIRE 120 120 240 AND 120 208 VOLTS DOD MODEL MEP 003A UT CLASS 60 HZ NSN 6115 00 465 1030 NAVFAC P 8 623 12 TO 35C2 3 455 2 TM 05684C 05685B 34 034072 TM 5 6115 585 24P 5 GENERATOR SET DIESEL ENGINE DRIVEN TA SKID MTD 10 KW 1 PHASE 2 WIRE 1 PHASE 3 WIRE 3 PHASE 4 W 120 120 240 AND 120 208 V DOD MODELS 003A UTILITY CLASS 60 NSN 6115 00 465 1030 AND MODEL MEP 112A UTILITY CLASS 400 6115 00 465 1027 NAVFAC P 8 623 24P TO 35C2 3 455 4 SL 4 05684C 06585B 040180 TM 5 6115 584 12 HR HAND RECEIPT MANUAL COVERING END ITEM COMPONENTS OF END ITEM C BASIC ISSUE ITEMS BII AND

ADDITIONAL AUTHORIZATION LIST AAL GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 5 KW 1 WIRE 1 PH 3 WIRE 3 PH 4 WIRE 120 120 240 AND 120 208 V D MEP 002A UTILITY CLASS 60 HZ NSN 6115 00 465 1044 040833 TM 5 6115 458 12 HR HAND RECEIPT MANUAL COVERING THE END ITEM COMPONENTS OF END ITE BASIC ISSUE ITEMS BII AND ADDITIONAL AUTHORIZATION LIST AA GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MOUNTED 20 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MODEL MEP 009A UT CLASS 50 60 HZ NSN 6115 00 133 9104 AND DOD MODEL MEP 108A PRECISE CLASS 50 60 HZ 6115 00 935 8729 040843 TM 5 6115 593 34 GENERATOR SET DIESEL ENGINE DRIVEN TAC SKID MTD 500 KW 3 PHASE 4 WIRE 120 208 AND 240 416 VOLTS DOD MODEL MEP 029A CLASS UTILITY 50 60 HZ NSN 6115 01 030 DOD MODEL MEP 029B CLASS UTILITY 50 60 HZ 6115 01 318 6302 INCLUDING OPTIONAL KITS DOD MODEL MEP 029AHK HOUSING KIT 6115 01 070 7550 DOD MODEL MEP 029ACM AUTOMATIC CONTROL MO 6115 01 275 7912 DOD MODEL MEP 029ARC REMOTE CONTROL MODULE 6110 01 070 7553 DOD MODEL MEP 029ACC REMOTE CONTROL CABLE 6110 01 087 4127 NAVFAC P 8 041070 TM 5 6115 593 12 GENERATOR SET ENGINE DRIVEN TACTICAL SKID MTD 500 KW 3 PHASE 4 WIRE 120 240 416 VOLTS DOD MODEL MEP 029A CLASS UTILITY HERTZ 50 60 NSN 6115 01 030 6085 MEP 029B UTILITY 50 60 6115 01 318 INCLUDING OPTIONAL KTS DOD MODELS MEP 029AHK NOMENCLATURE HOUS 6115 01 070 7550 MEP 029ACM AUTOMATIC CONTROL MODULE 6115 01 275 7912 MEP 029ARC REMOTE CONTROL MODULE 6110 01 070 7553 MEP 029ACC REMOTE CONTROL CABLE 6110 01 087 4127 TO 35C2 3 463 1 041338 LO 55 1730 229 12 POWER UNIT AVIATION MULTI OUTPUT GTED ELECTRICAL HYDRAULIC PNEUMATIC AGPU WHEEL MOUNTED SELF PROPELLED TOWABLE DOD MODEL MEP 360A CLASS PRECISE HERTZ 400 NSN 1730 01 144 1897 042791 TM 5 6115 457 12 HR HAND RECEIPT MANUAL COVERING THE BASIC ISSUE ITEMS BII FOR GE SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 100 KW 3 PHASE 120 208 AND 240 416 V DOD MODELS MEP007A UTILITY CLASS 50 6 NSN 6115 00 133 9101 MODEL MEP 106A PRECISE CLASS 50 60 6115 00 133 9102 AND MODEL MEP116A PRECISE CLASS 400 HZ 6115 00 133 9103 043437 TM 5 6115 593 24P 1 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MOUNTED 500 KW 3 PHA 4 WIRE 120 208 AND 240 416 VOLTS DOD MODEL MEP 029A UTILITY CL 50 60 HZ NSN 6115 01 030 6085 MEP 029B UTILITY CLASS 50 60 6115 01 318 6302 INCLUDING OPTIONAL KITS DOD MODEL MEP 029AHK HOUSING KIT 6115 01 070 7550 MEP 029ACM AUTOMATIC CONTROL MOD 6115 01 275 7912 MEP 029ARC REMOTE CONTROL MODULE 6110 01 070 7553 MEP 029ACC REMOTE CONTROL CABLE 6110 01 087 NAVFAC P 8 631 24P TO 35C2 3 463 4 044703 TM 5 6115 545 12 HR HAND RECEIPT MANUAL COVERING COMPONENTS OF END ITEM COEI BAS ITEMS BII AND ADDITIONAL AUTHORIZATION LIST AAL FOR GENERA DIESEL ENGINE DRIVEN TACTICAL SKID MTD 60 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MODELS MEP 006A UTILITY CLASS 50 6 NSN 6115 00 118 1243 MODEL MEP 105A PRECISE CLASS 50 60 H 6115 00 118 1252 AND MODEL MEP 115A PRECISE CLASS 400 HZ 6115 00 118 1253 050998 TM 5 6115

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**Air-handling Systems Ready Reference Manual** David L. Grumman,1986      **A Manual of Experiments in Physics** Joseph Sweetman Ames,William Julian Albert Bliss,1898      **Manual B Balancing and Testing Air and Hydronic Systems** Air Conditioning Contractors of America,2009 For Residential and Commercial HVAC Applications      **ASHRAE Handbook & Product Directory** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1971      **The Dictionary of Civil Aviation** Utku Taşova,2023-11-02 In the realm of civil aviation the sky is hardly the limit It's the starting line Each day countless professionals and enthusiasts alike engage with this dynamic sector propelling humanity literally into new horizons However as we soar into these vast expanses the necessity for a robust understanding and a shared language

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*A Laboratory Manual of Chemistry* Harry Nicholls Holmes, Louis W. Mattern, 1927    *Naval Air Service Training Manual* Great Britain. Admiralty, 1915    **Military Air Transport Service**

**Manual** United States. Air Force. Military Airlift Command, 1954    **Moody's Manual of Investments** John Sherman Porter, 1929 American government securities 1928-53 in 5 annual vols v 1 Railroad securities 1952-53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928-54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928-54

**Testing and Balancing HVAC Air and Water Systems, Fourth Edition** Samuel C. Sugarman, 2006-02-17 This fully revised and updated edition of this classic bestselling reference provides all the information needed to evaluate and balance the air and water sides of any HVAC system. The third edition adds new chapters on testing and balancing clean rooms and HVAC system commissioning. The book addresses every aspect of testing, adjusting, and balancing, including all types of instruments required and specific methods to adjust constant volume, single zone, dual duct, induction, and variable air volume systems. The author provides complete details for the full scope of system components, including fans, pumps, motors, drives, and electricity, as well as for balancing devices and instrument usage. The book also includes all necessary equations and a variety of useful conversion tables.

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