

FIFTH EDITION

Testing and Balancing HVAC Air and Water Systems



SAMUEL C. SUGARMAN

Testing And Balancing Hvac Air And Water Systems Fifth Edition

Samuel C. Sugarman



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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

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temperatures and water pumps and pump performance Chapter 15 reviews analog and digital controls Chapters 16 20 cover terminology for fluid flow psychrometrics refrigeration air distribution water distribution fans and pumps motors electrical and instrument usage and care Chapters 21 and 22 are equations and tables

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