National District Heating Association recommendations for piping to pressure regulators and controls. New illustrations were prepared for piping and for steam-carrying conduits.

Chapter 39—Automatic Control. The sections on Unit Ventilator and Panel Heating Controls were improved.

Chapter 40—Motors and Motor Controls. Description and classification of motors were brought up to date. Diagrams of speed-torque characteristics for squirrel-cage and wound-rotor motors were improved. New information was added on acceptable starting methods for large motors.

Chapter 43—Corrosion and Water Formed Deposits, Causes and Prevention. This chapter was largely rewritten with new data added on methods of treating water to prevent scale formation and corrosion.

Chapter 46—Industrial Exhaust Systems. The data on ventilation of metal cleaning and degreasing operations were improved. References were added on ventilation of kitchen hoods and cleaning tanks.

Chapter 50—Residential Summer Air Conditioning. The text was enlarged to include a method based on field observations for determining operating cost.

Chapter 51—Schoolhouse Heating and Ventilating. This is a new chapter introduced for the purpose of emphasizing the special factors which must be considered in designing systems for schoolhouses in various localities.

Chapter 53—Codes and Standards. The previously listed standards were examined, and changes were made where necessary to show recent editions of the standards. A number of standards approved during the past year were added.

The value of text retained from former editions was established by the examination and review given many unchanged sections by engineers familiar with their contents. Many illustrations throughout the book were improved for this edition.

A 24-page subject index and an *Edge Index* have been included to facilitate finding of information contained in the text.

This edition also provides an enlarged and useful Catalog Data Section of reference material on products of 328 well-known manufacturers of the heating, ventilating and air conditioning equipment. This section is also provided with a comprehensive page index, and an *Edge Index* for rapid reference to any type of equipment.

The Guide Committee takes pleasure in referring to the value of the many sources of information and wishes particularly to express its appreciation of the assistance received from the following individuals who have been very helpful in the preparation of this edition:

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The Guide, 1955, is presented to the Society members and other users in the hope that it will be a valuable up-to-date reference book, and a worthy successor to the preceding 32 editions.

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