Preface to the Seventh Edition

This Seventh Edition has retained the larger type and page size of the Sixth Edition, but it is about 100 pages less in thickness Much non-safety data that can readily be found elsewhere was eliminated and the order of chapters streamlined The Editors hope that this will make this edition easier to use in preventing accidents

The term *accident* is used in its broad scope and means "An unexpected, not necessarily injurious or damaging event, that interrupts the completion of an activity, it is invariably preceded by an unsafe act or an unsafe condition or both, or some combination of unsafe acts and/or unsafe conditions"

This definition broadens the scope of accident prevention activities beyond limited attention paid to injuries and prompts the safety professional to identify unsafe practices or defects in the environment that have accident-producing (and perhaps injury-producing) potential

Although the term *safety professional* is used throughout this Manual, it is a general term The Editors know that readers will have other titles—business managers, college professors and students, corporate safety officers, federal and state compliance officers, insurance engineers, personnel directors, and others who spend less than the majority of their time in safety work

New material

Two new chapters, "The Occupational Safety and Health Act of 1970" and "Non-Employee Accident Prevention," have been added

In addition to these, other chapters have been significantly rewritten—"Accident Investigation, Analysis, and Costs," "Accident Records and Injury Rates," "Human Behavior and Safety," "Human Factors Engineering," "Point-of-Operation and Transmission Guards," "Safety Program Organization" (including off-the-job safety), and "Workmen's Compensation"

"Exhaust and Ventilation" combines two Sixth Edition chapters "Ionizing Radiation" has been made more practical and is now part of "Industrial Hygiene" "Fire Protection" combines material that was formerly in two chapters

The arrangement of chapters has been improved so that those encompassing management techniques are in the first half of the Manual, and those involving the more technical duties of a safety professional comprise the second half

The Manual continues to use the English (fps) system of measurement The expanding use of the metric