

## ACKNOWLEDGMENTS

Acknowledgment is gratefully made to the organizations listed below for permitting us to use their copyrighted material in this manual,

### ***American National Red Cross***

Figures 4-81, 4-84, and 4-87.

### ***Fire Service Extension Department, University of Maryland***

Data on breathing apparatus, including figures 2-3, 2-4, 2-5, 2-6, 2-7, **2-8, 2-9, 2-10, 2-11, 2-12**, and 2-13; data on carbon dioxide and combustible metal agents, including figures 2-60 and 2-67; data on couplings, including figures 2-19, 2-20, 2-21, 2-23, 2-24, 2-25, 2-26, 2-27, 2-28, 2-29, 2-30, 2-31, 2-32, 2-33, 2-34, 2-35, 2-36, 2-37, 2-38, 2-39, 2-40, 2-41, 2-42, 2-43, 2-44, 2-45, 2-46, 2-47, 2-48, and 2-49; data on hose loads, including figures 4-2, 4-3; 4-4, 4-5, 4-6, 4-7, 4-9, 4-10, 4-11, 4-12, 4-13, **4-14**, 4-16, 4-17, and 4-18; the following figures on rope: 2-53, 2-54, 2-55, and 4-26.

### ***National Fire Protection Association***

Reproduced by permission from the ***Fire Protective Handbook***, 13th Edition, Copyright National Fire Protective Association, Boston, Massachusetts. Data from the following:

***Basic Definitions and Properties***-ignition and combustion, flammable or explosive limits, flammable (explosive range, flash point, and fire point).

***Principles of*** Fire-ignition and combustion.

***Heat Energy*** Sources-chemical heat energy, heat of combustion, spontaneous heating, heat of decomposition, heat of solution, electrical heat energy, resistance heating, induction heating, dielectric heating, heating from arcing, static electricity heating, heat generated by lightning, mechanical heat energy, friction heat, heat of compression, nuclear heat energy.

### ***Reuben H. Donnelley Corporation***

Reproduced by permission from ***The Fire Chief's Handbook***, Third Edition, 1967, New York, The Reuben H. Donnelley Corporation. Data on the chemistry and physics of combustion, simple fire triangle, tetrahedron of fire, modernizing the fire triangle, and figure 3-2.