

CONTENTS

(For detailed breakdown of tables, see index.)

	Pages
Temperature conversion table (Table 1).....	Inside front cover
Preface to the ninth revised edition.....	iii
Introduction	1
Units of measurement.....	1
Conversion factors and dimensional formulae.....	2
Some fundamental definitions (Table 2).....	4
Part 1. Geometrical and mechanical units.....	4
Part 2. Heat units.....	7
Part 3. Electric and magnetic units.....	10
Fundamental standards (Table 3).....	13
Part 1. Selection of fundamental quantities.....	13
Part 2. Some proposed systems of units.....	15
Part 3. Electric and magnetic units.....	16
Part 4. The ordinary and the ampere-turn magnetic units.....	18
The new (1948) system of electrical units (Table 4).....	19
Relative magnitude of the old international electrical units and the new 1948 absolute electrical units (Table 5).....	20
Relative values of the three systems of electrical units (Table 6).....	20
Conversion factors for units of energy (Table 7).....	21
Former electrical equivalents (Table 8).....	22
Some mathematical tables (Tables 9-15).....	23-36
Treatment of experimental data (Tables 16-25).....	37-45
General physical constants (Tables 26-28).....	46-55
Common units of measurement (Tables 29-36).....	56-69
Constants for temperature measurement (Tables 37-51).....	70-78
The blackbody and its radiant energy (Tables 52-57).....	79-86
Photometry (Tables 58-77).....	87-97
Emissivities of a number of materials (Tables 78-84).....	98-101
Characteristics of some light-source materials, and some light sources (Tables 85-102)	102-111
Cooling by radiation and convection (Tables 103-110).....	112-116
Temperature characteristics of materials (Tables 111-125).....	117-130
Changes in freezing and boiling points (Tables 126-129).....	131-135
Heat flow and thermal conductivity (Tables 130-141).....	136-144
Thermal expansion (Tables 142-146).....	145-154
Specific heat (Tables 147-158).....	155-164
Latent heat (Tables 159-164).....	165-167
Thermal properties of saturated vapors (Tables 165-170).....	168-178
Heats of combustion (Tables 171-183).....	179-186
Physical and mechanical properties of materials (Tables 184-209).....	187-228
Characteristics of some building materials (Tables 210-217).....	229-231
Physical properties of leather (Tables 218-223).....	232-233
Values of physical constants of different rubbers (Tables 224-229).....	234-238
Characteristics of plastics (Tables 230-232).....	239-240
Properties of fibers (Tables 233-236).....	241-245
Properties of woods (Tables 237-240).....	246-258
Temperature, pressure, volume, and weight relations of gases and vapors (Tables 241-253)	259-267
Thermal properties of gases (Tables 254-260).....	268-277
The Joule-Thomson effect in fluids (Tables 261-267).....	278-281
Compressibility (Tables 268-280).....	282-290
Densities (Tables 281-295).....	291-305
Velocity of sound (Tables 296-300).....	306-308
Acoustics (Tables 301-310A).....	309-317
Viscosity of fluids and solids (Tables 311-338).....	318-336
Aeronautics (Tables 339-346A).....	337-353
Diffusion, solubility, surface tension, and vapor pressure (Tables 347-369).....	354-374
Various electrical characteristics of materials (Tables 370-406).....	375-396
Electrolytics conduction (Tables 407-415).....	397-403

	Pages
Electrical and mechanical characteristics of wire (Tables 416-428).....	404-420
Some characteristics of dielectrics (Tables 429-452).....	421-433
Radio propagation data (Tables 453-465).....	434-450
Magnetic properties of materials (Tables 466-494).....	451-467
Geomagnetism (Tables 495-512).....	468-502
Magneto-optic effects (Tables 513-521).....	503-508
Optical glass and optical crystals (Tables 522-555).....	509-534
Transmission of radiation (Tables 556-573).....	535-548
Reflection and absorption of radiation (Tables 574-592).....	549-556
Rotation of plane of polarized light (Tables 593-597).....	557-560
Media for determinations of refractive indices with the microscope (Tables 598-601).....	561
Photography (Tables 602-609).....	562-567
Standard wavelengths and series relations in atomic spectra (Tables 610-625A)...	568-591
The atmosphere (Tables 626-630).....	592-595
Densities and humidities of moist air (Tables 631-640).....	596-605
The barometer (Tables 641-648).....	606-613
Atmospheric electricity (Tables 649-653).....	614-617
Atomic and molecular data (Tables 654-659).....	618-624
Abundance of elements (Tables 660-668).....	625-629
Colloids (Tables 669-682).....	630-634
Electron emission (Tables 683-689).....	635-637
Kinetic theory of gases (Tables 690-696).....	638-642
Atomic and molecular dimensions (Tables 697-712).....	643-650
Nuclear physics (Tables 713-730).....	651-671
Radioactivity (Tables 731-758).....	672-691
X-rays (Tables 759-784).....	692-705
Fission (Tables 785-793).....	706-709
Cosmic rays (Tables 794-801).....	710-713
Gravitation (Tables 802-807).....	714-718
Solar radiation (Tables 808-824).....	719-727
Astronomy and astrophysics (Tables 825-884).....	728-771
Oceanography (Tables 885-899).....	772-779
The earth's rotation: its variation (Table 900).....	780
General conversion factors (Table 901).....	781-785
Index.....	787