

Text Book of Heat

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TEXT BOOK OF HEAT



Discovery Publishing House Pvt. Ltd., 2004. Hardcover. Book Condition: New. This Book "Text Book of Heat" primarily intended for students preparing for degree and honours students of various Indian universities. Since the present day Student is some what pressed of time the treatment has been kept short and direct only such historical and other additional information has been given as may possible interest the more serious type of student. An attempt has been made to make the Language as simple as possible. We hope this book will be found useful by the students and Teacher in the various universities and Institutions of India. Contents, Preface I. Heat AND Temperature : Concept of Heat and Temperature; Thermometry; Types of Thermometers; Centigrade and Fahrenheit Scales; Relation between Celsius, Kelvin, Fahrenheit and Rankine Scales of Temperature; Liquid Thermometer; Errors and Corrections in a Mercury Thermometer; Gas Equation; Advantages of a Gas Thermometer; Calendar's Compensated Constant Prefigure Air Thermometer; Jolly's Constant Volume Air Thermometer; Constant Volume Hydrogen Thermometer; Gas Thermometer Corrections, Second Correction (Perfect or Ideal Gas Scale); Platinum Resistance Thermometer; Seeback Effect; Thermo-Electric Thermometer; Helium Vapour Pressure Thermometer; Standardization and Temperature Scale; Absolute Zero and Ice Point; Low Temperature Measurement; High Temperature Measurement II. Thermal EXPANSION : General; Section I : Expansion of Solids; Linear Expansion; Surface or Supercial Expansion; Cubical Expansion; Relation between the Three Coefficients of Expansion; Relation between Cubical Expansion and Density; Experimental Determination of the Coefficient of Linear Expansion of a Solid; Other Modifications to Fizeau's Method; Variation of the Coefficient of Expansion with Temperature; Gruneisen's Law; Linear Coefficient of Expansion of Crystals by X-ray Methods; The Coefficient of Cubical Expansion of a Crystal; Coefficient of Linear Expansion in a Direction other than the Principal Axes; Solids with Low Expansion Coefficient; Some Practical Applications of Thermal Expansion; Section II :...

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