



Kältephysik I / Low Temperature Physics I

By J. G. Daunt

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 The Production of Low Temperatures Down to Hydrogen Temperature.- Preface.- A. Refrigeration by gas (air) machines.- B. Compressed vapor refrigerating machines.- C. Cooling of gases by Joule-Thomson effect.- D. Theory of gas liquefaction using Joule-Thomson expansion.- E. Practical aspects of gas liquefaction using only Joule-Thomson expansion.- F. Theory of gas liquefaction using isentropic expansion.- G. Practical aspects of gas liquefaction using expansion engines.- H. Liquefaction by isentropic expansion.- I. Heat interchangers and regenerators.- Helium Liquefiers and Carriers.- A. Principles of refrigeration at low temperatures.- B. Components of a liquefying system.- C. Representative helium liquefiers.- D. Liquid storage and transport vessels.- Electrical Conductivity of Metals and Alloys at Low Temperatures.- A. Historical summary and general concepts.- B. Notes on experimental methods and techniques.- C. Comparison of experimental data with theory.- D. Concluding remarks.- Thermal Conductivity of Solids at Low Temperatures.- I. Introduction.- II. Thermal conductivity of dielectric solids.- III. Thermal conductivity of metals and alloys: Electronic component.- IV. Thermal conductivity of metals and alloys: Lattice component.- V. Thermal conductivity of superconductors.- References.- Low Temperature Heat Capacity of Solids.- A. Theory.- I. Lattice modes.- II. Electronic modes.- B. Experimental...

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