The Art of Cryogenics

Description: Cryogenics is the study of low temperature interactions - temperatures well below those existing in the natural universe. The book covers a large spectrum of experimental cases, including basic vacuum techniques, indispensable in cryogenics. Guidance in solving experimental problems and numerous numerical examples are given, as are examples of the applications of cryogenics in such areas as underground detectors and space applications. Updated tables of low-temperature data on materials are also presented, and the book is supplemented with a rich bibliography.

Key Features include:
- Experiments described in technical detail
- Description of newest cryogenic apparatus
- Applications in multidisciplinary areas
- Data on cryogenic properties of new materials
- Current reference review

Researchers (graduate and above) in the fields of physics, engineering and chemistry with an interest in the technology and applications of low-temperature measurements, will find this book invaluable.

Key Features include:
- Experiments described in technical detail
- Description of newest cryogenic apparatus
- Applications in multidisciplinary areas
- Data on cryogenic properties of new materials
- Current reference review

Contents:
1. Vacuum techniques
2. Cryoliquids
3. Properties of solids at low temperature
4. Thermal contact and switches
5. Cooling down to 0.3 K
6. Dilution refrigerators
7. Other refrigerators
8. Temperature metrology
9. Thermometry
10. Instrumentation for cryogenics
11. Low-temperature measurements
12. Applications of cryogenics

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