The aim of this fourth edition, as with its three predecessors, is to help physicists, chemists, engineers, biologists, and others with their investigations at low temperatures. The style is still that of a 'lab handbook' while the text has been completely revised to reflect the increasing use of ready built commercial equipment and the dramatic increase in the number of individuals from a wide variety of disciplines who now find themselves engaged in low-temperature experiments.

While the text stands alone as a practical guide for those without a detailed physics education, there are also sections on the history and fundamentals of cooling processes, temperature measurement, heat transfer, etc. for the postgraduate and undergraduate physicist. In addition the text provides an array of up-to-date data on metals, polymers, and ceramics. The recent progress in superconducting magnet design is reflected in advice on appropriate design parameters to consider when purchasing and integrating them in cryogenic apparatus.

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From reviews of the previous editions

It is readable, it is packed with ideas and information ... and ... It is a book which every designer of low temperature apparatus will wish to have. *Nature*

If I were compelled to disappear ... with only one reference text, [this] would be the one. *Cryogenics*

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Contents

1 The historical and scientific perspective 1
1.1 Introduction 1
1.2 Thermodynamics 2
1.3 Cooling processes 4
1.4 Liquefying gases 6
1.4.1 Faraday and chlorine 7
1.4.2 Oxygen 7
1.4.3 Hydrogen 9
1.4.4 Helium 9
1.5 Expansion engines 11
1.5.1 Air 11
1.5.2 Helium 11
1.6 Beyond the classical age 13
1.6.1 Magnetic cooling 14
1.6.2 Dilution refrigeration 14
1.6.3 Combination refrigerators 15
1.7 Modern times 15

2 Production of temperatures to 1 K 16
2.1 Introduction 16
2.2 Coolers using countercurrent heat exchangers 17
2.2.1 Pressure drop 17
2.2.2 Heat transfer 18
2.2.3 Efficiency and length 19
2.2.4 Construction 20
2.2.5 Other liquefier details 21
2.3 The Collins helium liquefier 22
2.4 Klimenko cycle 22
2.5 Coolers using turbo-expanders 24
2.6 Brayton cycle 24
2.7 Coolers using regenerative heat exchangers 25
2.8 Philips Stirling cycle 26
2.9 Gifford–McMahon 27
2.10 Pulse tube cooling 29
2.11 Vuilleumier cycle 30

2.12 Observations on cryocoolers 31
2.13 Magnetic cooling above 1 K 31
2.14 Gas impurities 33

3 Thermometry 34
3.1 Introduction 34
3.1.1 Sources 35
3.1.2 Some mileposts in history 36
3.2 The ITS-90 37
3.3 Measurement of thermodynamic temperature 41
3.3.1 Gas thermometry 41
3.3.2 Acoustic gas thermometry 44
3.3.3 Noise thermometry 44
3.4 Secondary thermometers 46
3.5 Vapour pressure thermometry 46
3.5.1 Introduction 46
3.5.2 Thermomolecular pressure difference 48
3.5.3 Helium 48
3.5.4 Hydrogen 49
3.5.5 Neon, argon, nitrogen and oxygen 49
3.6 Resistance thermometry 50
3.6.1 Introduction 50
3.6.2 Pure metals 53
3.6.3 Magnetic alloys 56
3.6.4 Semiconductors and thermistors 57
3.6.5 Oxide sensors 61
3.6.6 Junction diodes 62
3.7 Capacitance 62
3.8 Thermocouples 64
3.9 Magnetic susceptibility 67
3.9.1 Electronic susceptibility 68
3.9.2 Nuclear susceptibility 70
3.10 Nuclear orientation 74
3.11 ^{3}He melting curve 75
3.12 ^{3}He viscosity 80

4 Heat transfer 82
4.1 Introduction 82
4.2 Conduction of heat by a gas 82
4.3 Heat transfer through solids 84
4.4 Heat transfer by radiation 87
4.5 Other causes of heat transfer 89
4.5.1 Joule heating 89
4.5.2 Gas adsorption 91
4.5.3 Helium film creep and thermal oscillations 91

4.5.4 Mechanical vibrations 92
4.5.5 Inadequate anchoring of leads 93
4.5.6 Electrical leakage 93
4.6 Example of heat transfer calculation 94
4.7 Heat transfer through pressed contacts 96
4.8 Heat switches 97
4.8.1 General 97
4.8.2 Mechanical switches 98
4.8.3 Superconducting switches 98
4.8.4 Other switches 99

5 Storage and handling of liquefied gases 100
5.1 Storage vessels 100
5.1.1 Introduction 100
5.1.2 Danger and safety 101
5.1.3 Glass dewars 103
5.1.4 Metal dewars 104
5.1.5 'Plastic' vessels 106
5.1.6 Liquid helium dewars for research cryostats 107
5.2 Transfer tubes 107
5.2.1 Introduction 107
5.2.2 Liquid air, N_2, O_2 108
5.2.3 Helium and hydrogen 110
5.3 Liquid-level detectors 112
5.3.1 Introduction 112
5.3.2 Depth gauges 113
5.3.3 Level detectors 115
5.4 Liquid-level controllers 116

6 Temperature control 118
6.1 Introduction 118
6.2 Basics 119
6.2.1 ^{3}He refrigerators 121
6.2.2 Dilution refrigerators 121
6.3 Time Constants 122
6.4 Control 123
6.4.1 Choice of time constants 124
6.4.2 Choice of loop gain 125
6.5 Stability 125
6.6 Non-linearities 126
6.7 Integral control 127
6.8 Derivative control 128
6.9 Setup of PID controllers 129
6.10 Practical circuitry 130
6.11 Commercial controllers 133

7 Cryostats for 1–300 K 134
7.1 Introduction 134
7.2 Cryostats for specific heat measurements 136
7.3 Cryostats for thermal conductivity measurements 139
7.4 Cryostats for capacitance dilatometry 141
7.5 Cryostats for electrical resistance measurements 144
7.6 Cryostats for optical and X-ray measurements 144
7.7 Magnetic susceptibility measurement 147
7.8 Dip-stick cryostats for storage dewars 149
7.9 Some other cryostats 152

8 Below 0.3 K 153
8.1 Introduction 153
8.2 Dilution refrigerators 153
8.2.1 Overview 154
8.2.2 Properties of ^{3}He and ^{4}He 154
8.2.3 Details of operation 157
8.2.4 Design features 160
8.2.5 Common faults 164
8.3 Magnetic cooling 165
8.3.1 Subsystem separation 166
8.3.2 The demagnetization cooling process 167
8.3.3 The experimental view 169
8.4 The quantitative approach 170
8.4.1 Nuclear paramagnetic materials 172
8.4.2 Thermal behaviour 173
8.5 Other aspects of magnetic cooling 176
8.5.1 Special problems 176
8.5.2 Heat switches 177
8.5.3 Multistage methods 178
8.5.4 Electronic paramagnets 180
8.6 Other techniques 181

9 Magnets 182
9.1 Introduction 182
9.2 Overview 182
9.2.1 Resistive magnets 182
9.2.2 Superconducting magnets 183
9.2.3 Hybrid magnets 184
9.2.4 Pulsed magnets 184
9.2.5 Other methods 185
9.3 Superconductivity 185
9.4 Magnet wire 186
9.5 Magnet construction 188
9.6 Magnet specifications 189

9.7 Persistent mode 189
9.8 λ-plate refrigeration 191
9.9 Power supplies 191
9.10 Lead design for high currents 192
9.11 Magnet operation 193
9.12 Quenches 194
9.13 Small coils 194
9.14 Magnet calculations for small coils 195
9.14.1 Field profiles 195
9.14.2 Calculating fields 196

10 Other techniques 197
10.1 Introduction 197
10.1.1 High-vacuum systems 197
10.1.2 Pumping speed 201
10.1.3 Low-temperature leaks 204
10.2 Solders 205
10.2.1 Hard solders or silver solders 205
10.2.2 Soft solders 206
10.2.3 Welding 207
10.2.4 Low-melting-point solders 207
10.2.5 Special solders 208
10.3 Vacuum seals and cements 208
10.3.1 Metal–glass seals 208
10.3.2 Sealing cements and compounds 209
10.3.3 Demountable vacuum seals 211

11 Physical properties of solids 213
11.1 Introduction 213
11.2 Heat capacity 213
11.2.1 Introduction 213
11.2.2 Lattice heat capacity 214
11.2.3 Electronic heat capacity 216
11.2.4 Sources and estimates of data 216
11.2.5 Sample calculation of cooling requirements 218
11.2.6 Liquid helium temperatures 218
11.3 Thermal expansion 219
11.3.1 Introduction 219
11.3.2 Background 220
11.3.3 Data sources and estimates 222
11.3.4 A useful approximation 224
11.4 Electrical resistance of metals 224
11.4.1 Introduction 224
11.4.2 Scattering by lattice vibrations 225
11.4.3 Scattering by static imperfections 227
11.4.4 Data sources and estimates 227

11.5 Thermal conductivity 228
11.5.1 Introduction 228
11.5.2 Metals 228
11.5.3 Non-metals 230
11.5.4 Glasses and amorphous polymers 232
11.5.5 Alloys 232
11.5.6 Foams and powders 233
11.5.7 Data sources 234
11.6 Magnetic susceptibility 234

Appendix A. Suppliers of cryogenic equipment 237

Appendix B. Tables 251

Common symbols 261

References 263

Index 275