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Sommario/riassunto	This book is the biography of a taste in poetry and its consequences. During the 1950s and 1960s, a generation of poets appeared who would eschew the restrained manner of Movement poets such as Philip Larkin, a generation who would, in the words of the introduction to A. Alvarez's classic anthology The New Poetry, take poetry 'Beyond the Gentility Principle'. This was the generation of Thom Gunn, Geoffrey Hill, Ted Hughes, Sylvia Plath and Peter Porter.William Wootten explores what these five poets shared in common, their connections, critical

	reception, rivalries and differences, and locates what was new and valuable in their work. The Alvarez Generation is an important re-evaluation of a time when contemporary poetry and its criticism had a cultural weight it has now lost and when a 'new seriousness' was to become closely linked to questions of violence, psychic unbalance and, most controversially of all, suicide.

2.

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thermodynamics 11 Horse Power Calculations 11 3 Compressor Types 13 Dynamic Compressors 13 Axial compressors 13 Centrifugal compressors 18 Variations in compressor design 22 Positive Displacement Compressors 22 Blowers 23 Reciprocating compressors 26 Single-cylinder reciprocating compressor 28 Balanced opposed reciprocating compressor 45 Integral engine-compressor 47 Preliminary selection and sizing 48 Screw Compressors 52 Screw compressor control 54 4 Effect of Operating Conditions 57 General 57 Dynamic Compressors 57 Centrifugal Compressor Safety Limits 63 Positive Displacement Compressor 63 Reciprocating Compressor Safety Limits 64 5 Throughput Control 65 Speed Control 65 Suction Valve Throttling 65 Discharge Valve Throttling 66 Variable Guide Vane Control 66 Recycle Valve Control 67 Suction Valve Unloaders 67 Variable or Fixed Volume Pockets 71 6 Centrifugal/Axial Compressors Description of Surge 73 Surge and Stall 73 7 Surge Control Centrifugal/Axial Compressors 77 Minimum Flow Control 77 Maximum Pressure Control 77 Dual Variable Control 78 Ratio Control 79 Surge Avoidance Algorithm 83 Surge Stop Algorithm 83 Calculate the Surge Line Slope 84 8 Vibration 87 9 Valve Requirements 95 Process Control 96 10 Seal Requirements 99 Contacting Seals 101 "O" Rings 101 Positive Displacement Compressor Components 101 Rotating Compressor Components 104 Dry gas seals 112 11 Instrument Requirements 115 12 Detectable Problems 119 13 Controlling Reciprocating and Centrifugal Compressors in Identical Processes 135 Introduction 135 Discussion 136 The Control Overview 137 Method of Control 139 General 139 Reciprocating Compressor Control 139 Automatic operation 140 Manual operation 141 Remote terminal display 142 Centrifugal compressor control 142 Automatic operation 142 Manual operation 142 Potential Problems that were Avoided 142 Conclusion 144 14 Optimization and Revitalization of Existing Reciprocating Compression Assets 149 New Custom Engineered Replacement Cylinders 150 Case history 1: Increased pipeline compressor capacity 152 Case history 2: Improved service life 153 Case history 3: Providing safe and reliable production operation 154 Case history 4: Eliminating extremely serious piston failures 155 Case history 5: Increasing compressor efficiency and throughput 158 Case history 6: Increasing cylinder working pressure 160 Case history 8: Emergency replacement of obsolete cylinders 163 Case history 9: Extending OEM standard cylinder offerings 164 Case history 10: Filling gaps in OEM standard cylinder offerings 165 Re-Applied Compressor Cylinders 166 Case history 11: Adapting remanufactured cylinders to an existing compressor 167 Case history 12: Mixing used OEM cylinders and frames to optimize performance 170 Case history 13: Extending obsolete compressor life with new OEM cylinders 171 Case history 14: Completely reconfiguring an existing compressor 174 Compressor Optimization and Automation with Customized Unloading Devices 175 Case history 15: Automation of propane refrigeration compressor 176 Case history 16: Pipeline compressor automation 177 Case history 17: Replacement of variable speed engine with synchronous electric drive 178 Case history 18: Automation of field gas gathering compressors 179 Summary 182 Acknowledgement 183 References 183 15 Piston Rod Run-out is a Key Criterion for Recip Compressors 185 Introduction 185 Horizonal Run-Out 185 Vertical Run-Out 186 Normal Run-Out 188 Acceptable Vertical Run-Out 188 Measuring Rod Run-Out 189 Correcting Vertical Run-Out 190 Evaluating Vertical Run-Out 191 16 Effect of Pulsation Bottle Design On the Performance of a Modern Low-speed Gas Transmission Compressor Piston 195 Introduction 195 Introduction 196 Case Study 1 198 Case

study 2 205 Summary 209 References 210 17 Resolution of a Compressor Valve Failure: A Case Study 211 Introduction 212 Failure Analysis 216 Conclusions 219 Acknowledgements 220 Appendix A1 Compressor Manufacturers 221 Appendix A2 Comparison Table of the Three Types of Compressors 233 Appendix B1 List of Symbols 235 Appendix B2 Glossary of Terms 239 Appendix B3 Conversion Factors 265 Appendix C Gas Properties and Behavior 271 Appendix D Classification of Hazardous Atmospheres 309 Appendix E Air/Oil Cooler Specifications Check List 311 Appendix F Cylinder Displacement Curves 315 Appendix G Compressor Cylinder Lubrication 321 Appendix H Troubleshooting Chart: Positive Displacement Compressors 325 Appendix I Starting, Operating and Maintenance Procedures 329 Appendix J Basic Motor Formulas and Calculations 347 Appendix K Glossary of Seal Terms 359 Appendix L Seal Materials 383 Index 387 About the Author.

Sommario/riassunto

This book examines the full spectrum of compressor types, how they operate, how to control them, and how operating conditions can significantly impact their performance. Discussed in detail are the influence of pressure, temperature, molecular weight, specific heat ratio, compression ratio, speed, vane position, and volume bottles. The various methods of throughput control are also addressed, including discharge throttling, suction throttling, guide pain positioning, volume, bottles, suction valve unloaders, speed control, as well as how each of these control methods affects compressor life. Compressor surge is defined and discussed in detail, along with the types of instrumentation (controllers, valves, pressure, and temperature transmitters) available, and which of those are most suitable for controlling search. Case studies have been included to illustrate the principles covered in the text. This edition also includes detailed information on compressor seals. Various types of seals providing the best results for different applications are discussed, thereby giving the reader a basic understanding of seals serotypes and applications.