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| 1. | Record Nr. | UNINA990001088090403321 |
| | Autore | Narlikar, Jayant Vishnu <1938- > |
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Nota di contenuto	Cover; 8th International Conference on Compressors and their Systems; Copyright; CONTENTS; FOREWORD; KEYNOTE PAPERS; What does the future hold for compressor manufacturers?; ABSTRACT; 1 INTRODUCTION; 2 TRENDS IN REFRIGERATION; 3 ADDITIONAL CHALLENGES; 4 ADDITIONAL OPPORTUNITIES; 5 NEW TECHNOLOGIES; 6 JUSTIFICATION FOR THE CHANGE; 7 CONCLUSIONS; REFERENCE LIST; Recent research of novel compression concepts for vapor compression heat pumping, air conditioning and refrigeration systems; ABSTRACT; 1 INTRODUCTION; 2 BOWTIE COMPRESSOR; 3 ROTARY SPOOL COMPRESSOR; 4 Z-COMPRESSOR; 5 LINEAR COMPRESSOR 6 DIAPHRAGM COMPRESSOR7 SUMMARY; 8 REFERENCES; Sliding vane rotary compressor technology and energy saving; ABSTRACT; INTRODUCTION; 1. SLIDING VANE COMPRESSOR TECHNOLOGY AND ENERGY CONSUMPTION; 2. SLIDING VANE COMPRESSOR: PRINCIPLE OF OPERATION; 2. PREMIUM SECTORS OF SVRC; 3. CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; COMPRESSOR SYSTEMS; Experimental study of compressor operating characteristics and performance when using refrigerants R32, R1234yf, and two new low GWP developmental refrigerants as drop-inreplacements for R410A; ABSTRACT; NOMENCLATURE; 1 INTRODUCTION 2 EXPERIMENTAL METHODOLOGY3 RESULTS AND DISCUSSION; 4 CONCLUSIONS; ACKNOWLEDGMENT; REFERENCES; Performance and

suitability comparisons of some R22 possible substitute refrigerants; ABSTRACT; NOMENCLATURE; 1 INTRODUCTION; 2 COMPARISONS OF DIRECT ENVIRONMENTAL IMPACT; 3 COMPARISONS OF COMPATIBILITY WITH EXISTING R22 SYSTEMS; 4 COMPARISONS OF SYSTEM PERFORMANCES; 5 CONCLUSIONS; ACKNOWLEDGMENT; REFERENCE LIST; Oil level measurement in oil-injected screw compressor packages used in the petroleum, petrochemical, refrigeration and fuel gas; ABSTRACT

1 OIL-INJECTED SCREW COMPRESSOR LUBRICATION OIL SYSTEM2 LEVEL MEASUREMENT TECHNOLOGIES; 3 CONCLUSIONS; 4 REFERENCES; Simulation of a cold climate heat pump furnished with a scroll compressor with multiple vapor injection lines; ABSTRACT; NOMENCLATURE; 1 INTRODUCTION; 2 COMPRESSOR ANALYSIS AND SIMULATION; 3 CYCLE ANALYSIS; 4 COMPRESSOR SIMULATION WITH ONE PAIR OF INJECTION PORTS; 5 OPTIMIZATION OF VAPOR-INJECTED COMPRESSORS WITH ONE AND TWO INJECTION LINES; CONCLUSIONS; REFERENCES LIST; Compressor for exhaust treatment of non-road vehicles; ABSTRACT; 1 INTRODUCTION; 2 COR® TECHNOLOGY 3 COR® COMPRESSOR4 DEVELOPMENT OF PLASTIC ROTORS FOR THE COR® COMPRESSOR; 5 CONCLUSION; 6 OUTLOOK; 7 REFERENCE LIST; Screw pulsation generation and control: a shock tube mechanism; ABSTRACT; NOMENCLATURE; 1. INTRODUCTION; 2. SCREW PULSATION GENERATION MECHANISM: A SHOCK TUBE THEORY; 3. PULSATION CONTROL: PULSATION TRAP METHOD; 4. CONCLUSIONS AND DISCUSSIONS; ACKNOWLEDGEMENTS; REFERENCES; Numerical analysis of unsteady behaviour of a screw compressor plant system; ABSTRACT; NOMENCLATURE; 1. INTRODUCTION; 2. MATHEMATICAL MODEL OF THE SCREW COMPRESSOR PLANT 3. EXPERIMENTAL VERIFICATION OF THE RESULTS OBTAINED FROM THE MATHEMATICAL MODEL

Sommario/riassunto

This book contains the papers from the 2013 International Conference on Compressors and Their Systems, held from 9-10 September at City University London. The long-running conference series is the ultimate global forum for reviewing the latest developments and novel approaches in compressor research. High-quality technical papers are sourced from around the globe, covering technology development, operation, maintenance and reliability, safety and environmental impact, energy efficiency and carbon footprint, system integration and behaviour, upgrades and refurbishment, design and manufacture, e
