

Table of Contents

EXPERIENCES IN ANALYSIS AND MONITORING COMPRESSOR PERFORMANCE	3
<i>John B. Duggan and Stephen R. Locke</i>	
FACTORS AND PREVENTIVE MEASURES RELATIVE TO THE HIGH TEMPERATURE CORROSION OF BLADE/DISK COMPONENTS IN FCC POWER RECOVERY TURBINES	11
<i>Phillip Dowson, Douglas M. Rishel, and Norman S. Bornstein</i>	
AN APPLICATION OF A HYDROSTATIC PRESSURE LIFT SYSTEM FOR CONTROL OF VARIABLE THRUST LOADS	27
<i>Essie Noori, Michael J. Harrington, and David R. Stenson</i>	
TILTING PAD JOURNAL BEARING PIVOT DESIGN FOR HIGH LOAD APPLICATIONS	33
<i>John C. Nicholas and Karl D. Wygant</i>	
THE DESIGN AND APPLICATION OF A SQUEEZE FILM DAMPER BEARING TO A FLEXIBLE STEAM TURBINE ROTOR	49
<i>Malcolm E. Leader, John K. Whalen, Godfrey G. Grey, and Thomas D. Hess, Jr.</i>	
USING A DAMPER SEAL TO ELIMINATE SUBSYNCHRONOUS VIBRATIONS IN THREE BACK-TO-BACK COMPRESSORS	59
<i>Robert L. Richards, John M. Vance, Donald J. Paquette, and Fouad Y. Zeidan</i>	
PAD TEMPERATURE IN HIGH SPEED, LIGHTLY LOADED TILTING PAD JOURNAL BEARINGS	73
<i>Stephen L. Edney</i>	
THERMAL EFFECTS IN HYDRODYNAMIC JOURNAL BEARINGS OF SPEED INCREASING AND REDUCTION GEARBOXES	85
<i>Christophe Bouchoule, Michel Fillon, Daniel Nicolas, and Franck Barresi</i>	
EXPERIENCE WITH EMPIRICAL CRITERIA FOR ROTATING STALL IN RADIAL VANILLAS DIFFUSERS	97
<i>John W. Fulton and William G. Blair</i>	
DEVELOPMENT AND FIELD APPLICATION OF A SINGLE ROTOR DESIGN DRY GAS SEAL	107
<i>Robert S. Evenson, Brian Mason, Daniel V. Frederick, and Alain G. St. Onge</i>	
CLEANING TURBOMACHINERY WITHOUT DISASSEMBLY, ONLINE AND OFFLINE	117
<i>Andrew P. Watson, Donald R. Carter, and C. Dale Alleyne</i>	
IS THE DRY COUPLING REALLY CAUSING YOUR VIBRATION PROBLEM	129
<i>Guill A. Cornejo, Joseph P. Corcoran, and Sujen Chen</i>	
TROUBLESHOOTING BEARING AND LUBE OIL SYSTEM PROBLEMS	147
<i>Thomas H. McCloskey</i>	
RECIPROCATING COMPRESSOR VALVE RELIABILITY IMPROVEMENTS	167
<i>John R. Metcalf and Derek Woollatt</i>	
LEAKAGE AND ROTORDYNAMIC EFFECTS OF COMPRESSIBLE ANNULAR SEALS	175
<i>Joseph K. Scharrer and Joseph M. Pelletti</i>	
USER INSIGHTS FOR THE EFFECTIVE PURCHASE OF NEW TURBOMACHINERY	191
<i>Erwin A. Gaskamp and Robert E. Carpenter</i>	

IMPROVED RELIABILITY THROUGH THE USE OF DESIGN AUDITS	203
<i>J. C. Wachel, Kenneth E. Atkins, and James D. Tison</i>	
DRY GAS SEAL RETROFIT	221
<i>James F. Southcott, J. Michael Sweeney, and Paul L. Feltman, Jr.</i>	
USING FAULT TREES TO DETERMINE ROOT CAUSE FAILURES	231
<i>Robert X. Perez</i>	
DISCUSSION GROUPS AND LEADERS	235
SHORT COURSES	271
ADVISORY COMMITTEE	277
TURBOMACHINERY LABORATORY STAFF	283
TURBOMACHINERY LABORATORY	287