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Sommario/riassunto	"Comprehensive treatise on gas bearing theory, design and application This book treats the fundamental aspects of gas bearings of different configurations (thrust, radial, circular, conical) and operating principles (externally pressurized, self-acting, hybrid, squeeze), guiding the reader throughout the design process from theoretical modelling, design parameters, numerical formulation, through experimental characterisation and practical design and fabrication. The book devotes a substantial part to the dynamic stability issues (pneumatic hammering, sub-synchronous whirling, active dynamic compensation and control), treating them comprehensively from theoretical and experimental points of view. Key features: Systematic and thorough treatment of the topic. Summarizes relevant previous knowledge with extensive references. Includes numerical modelling and solutions useful for practical application. Thorough treatment of the gas-film dynamics problem including active control. Discusses high-speed bearings and applications"--