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Nota di contenuto	Contents; Common symbols; 1 PHYSICS, BIOLOGY, AND MATHEMATICS; 2 SIMPLE VIBRATORS; 3 VIBRATION OF STRINGS AND BARS; 4 SENSORY HAIRS AND OTOLITHS; 5 VIBRATION OF MEMBRANES, PLATES, AND SHELLS; 6 ACOUSTIC WAVES; 7 ACOUSTIC SOURCES AND RADIATION; 8 LOW-FREQUENCY NETWORK ANALOGS; 9 LOW-FREQUENCY AUDITORY MODELS; 10 PIPES AND HORNS; 11 HIGH-FREQUENCY AUDITORY MODELS; 12 THE INNER EAR; 13 MECHANICALLY EXCITED SOUND GENERATORS; 14 PNEUMATICALLY EXCITED SOUND GENERATORS; 15 SIGNALS, NOISE, AND INFORMATION; APPENDIXES; Glossary; Bibliography; Index
Sommario/riassunto	This is a practical guide for researchers and advanced graduate students in biology and biophysics who need a quantitative understanding of acoustical systems such as hearing, sound production, and vibration detection in animals at the physiological level.