



Interferometer Experiments in Acoustics and Gravitation (Classic Reprint) (Paperback)

By Carl Barus

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Interferometer Experiments in Acoustics and Gravitation A more suitable field for testing the immediate capabilities of the mercury U-tube is detailed in Chapters III and IV, where the endeavor is made to give an account of the pressures and dilatations observable in a region vibrating acoustically. If this is quite closed or quite open to the atmosphere, the record of the U-tube within is without interest; but if the region is all but closed up - open, for instance, through a pin-hole less than mm. In diameter - the gage shows pronounced fringe displacements as a rule and particularly at the frequency of the harmonics. If the sound generator is a telephone, the displacements are proportional to the effective currents actuating it and at the harmonics much more than Ohms may be put in circuit before the fringes cease to move appreciably. Similarly under low resistance, very small fractions of a semi-tone are registered and the ear becomes a poor apparatus for discrimination. The investigations are made along two lines, in the first of which the sound generator and...



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