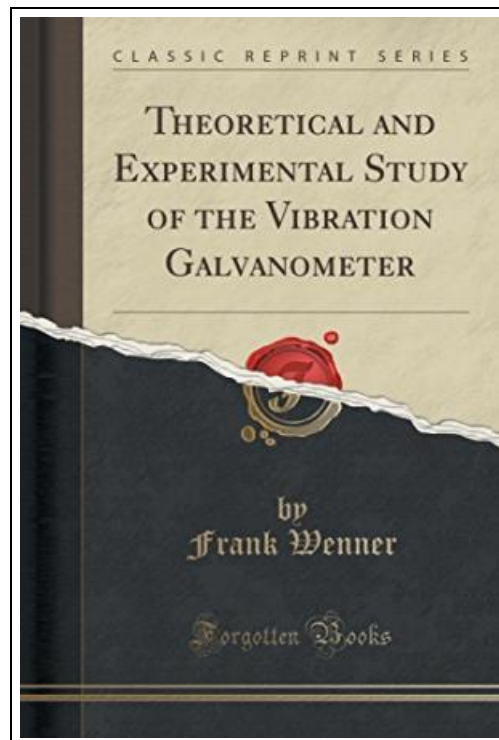


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Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Theoretical and Experimental Study of the Vibration Galvanometer If the period or frequency of the current is changed while the free period of the instrument is kept constant, it is found that the instrument has a high sensibility at and near the resonating frequency, while at frequencies differing by more than a few per cent from the resonating frequency the sensibility is very small. The instrument, therefore, responds only slightly to the harmonics in the current or electromotive force wave, so that usually no error is introduced when measurements and calculations are made on the assumption of a pure sine wave. This property makes the instrument especially suitable for those measurements in which frequency enters and in which null methods are used. Max Wien 1 pointed out some of the advantages of a tuned instrument when he described his optical telephone, a vibration galvanometer in which the essential part of the moving system consists of a piece of soft iron on a very flexible diaphragm. The soft iron armature is actuated by one or two bipolar telephone magnets of the usual construction. The current to be investigated, passing through the coils, causes a relative displacement between the magnet and armature, and this is communicated to a mirror in such a way as to give an angular displacement to the latter. The displacement is read by the broadening of a line image. The mirror is on a spring, and for a maximum sensibility the period of this system, as well as the period of the current to be investigated, is adjusted to the period of the diaphragm. Wien showed experimentally that the deflection is proportional to the current. Rubens 2 next...

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