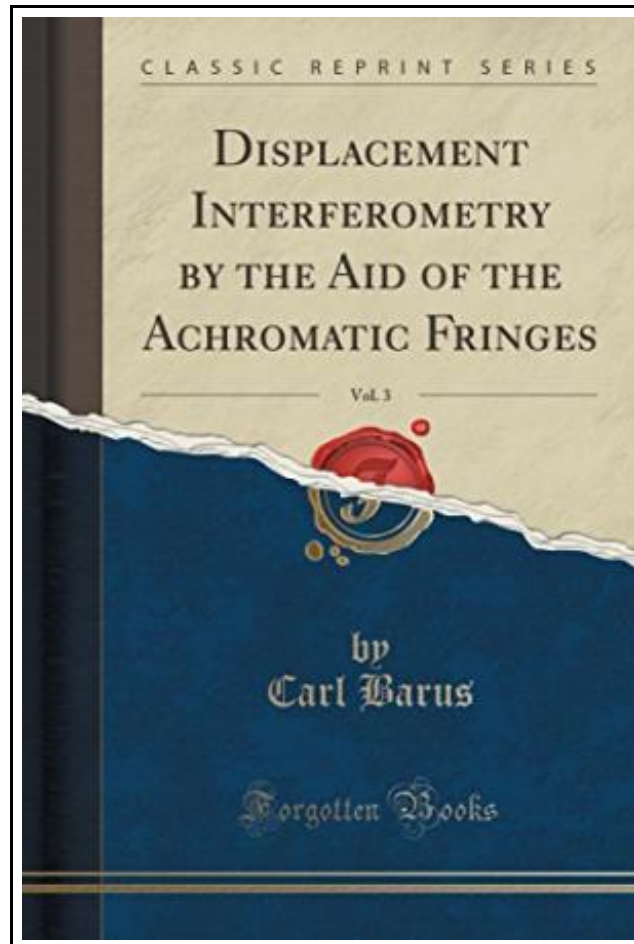


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from *Displacement Interferometry by the Aid of the Achromatic Fringes, Vol. 3* The present report is chiefly devoted to the investigation of methods of research in which displacement interferometry, conducted by the aid of the achromatics discussed in the preceding report, gives promise of fruitful applications. Thus, in Chapter 1 the method of measuring small angles hitherto suggested is given a practical test. The general theory of the subject in its bearing on the two possible methods is developed at some length and a variety of interferometer devices, with mirror, ocular, and collimator micrometers, are instanced. Unfortunately, it was not till after the end of these experiments that I detected the method of reducing the fringes to the smallest number possible, practically to a single fringe; otherwise the work would have been more satisfactory throughout. As the achromatic fringes can not (in general) be found without first finding the corresponding spectrum fringes and, conversely, since for each type of spectrum fringes (direct or reversed) a corresponding group of achromatic fringes may be associated, I have devoted Chapter 2 to spectrum fringes differing in their manner of production. The endeavor here has been to obtain interferences from distant slender luminous objects, without the aid of a slit. Partially at least the work has succeeded, but not as far as I hoped. The experiments are very difficult. The work in the third chapter was undertaken at the request of Prof. W. G. Cady, of Wesleyan University, in the endeavor to obtain the elastic constants of small bodies. The application of the displacement method proved at once to be astonishingly easy in a case where a degree of rough...



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