Title
AUTOMATIC-MEASUREMENT OF REFRACTIVE ERROR OF EYE

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ThD4. Automatic Measurement of the Refractive Error of the Eye. TOM N. CORNSWEET, Div. of Social Sciences, University of California, Irvine, Irvine, Calif. 92717.—Instruments that measure the focal lengths of lenses with great precision have been available for many years, and it would appear relatively simple to make a similar instrument to measure refractive errors of the human eye in order to speed up and possibly improve the process of prescribing corrective lenses. However, the development of such instruments has proved extremely difficult, and only within the past few years have automatic "refractors" become commercially available. Most of the difficult problems in the design of these instruments are consequences of the properties of the eye and other contents of the human head. Some of those problems and their solutions will be described. (25 min.)