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Cover Photo:

Norman A. Gjostein of the Metallurgy Department, Scientific Research Staff, Ford Motor Company, Dearborn, Mich. is using an Auger Electron Spectrometer as he looks for impurities on the fracture surfaces of silicon nitride. Dr. Gjostein is coauthor with Norman G. Chavka of the lead article "Technological Applications of Auger Electron Spectroscopy" in this issue of the *Journal of Testing and Evaluation*. N. A. Gjostein and N. G. Chavka review the principles of Auger electron spectroscopy (AES) and describe the application of AES to a series of technological problems including fracture surface analysis, weathering of glass, vacuum brazing of aluminum alloys, paint adhesion on metal surfaces, and behavior of a friction material. The photograph of Dr. Gjostein is by J. L. Zemboy of the Presentations Section, Scientific Research Staff, Ford Motor Company.