Methods are presented for analyzing repeated measurements on a variable, or a battery of tests, given to subjects in one or more groups. Approximate procedures based on classical analysis of variance are presented and exact, generalized multivariate methods are also discussed. [The Science Citation Index® (SCI) and the Social Sciences Citation Index® (SSCI) indicate that this paper has been cited in over 295 publications since 1961.]

Samuel W. Greenhouse
Department of Statistics
George Washington University
Washington, DC 20052

February 2, 1982

"Seymour Geisser joins me in expressing our pleasure in learning that our 1959 paper is now a Citation Classic. Each of us was aware that our procedures were being applied because of the many letters and calls we received over the years. In preparing for this statement, I reread the paper. I must say it reads very well and is quite lucid in its exposition. I believe we have the then-editors of Psychometrika to thank for this in that, contrary to editorial strictures in the then-editors of Psychometrika. I am sure familiarity with our procedures was greatly facilitated and enhanced when shortly thereafter our work was included in several statistical textbooks, put into a number of computer programs, and reprinted in a book of readings in educational research.

"It is interesting to note that many designs of a similar nature have appeared in research fields other than the social sciences, particularly in biomedical research. Our proposed techniques for analyzing these data would clearly be applicable. Indeed, such uses have already been made in these other fields. Recently, I reviewed a paper generalizing our techniques to multifactors observed on the same individual. (This paper has not been published as yet.) Actually, Geisser published a paper wherein he considered two factors involving Latin square designs.4

"As far as I am aware, these methods have not been superseded by any better procedure and are as applicable today, given that the assumptions hold, as they were 20 years ago."


