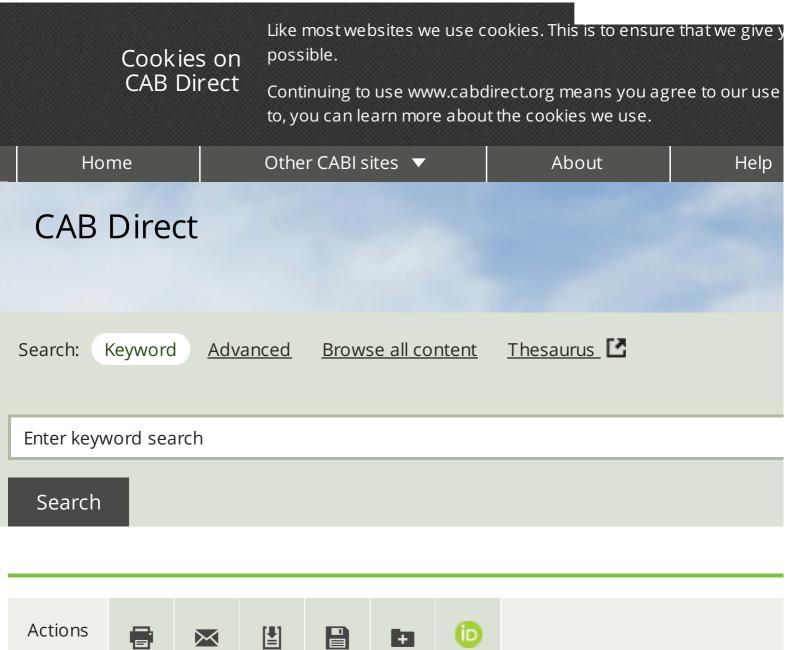
The advanced theory of statistics.

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The advanced theory of statistics.

Author(s): KENDALL, M. G.

Book: The advanced theory of statistics. 1946 No.2nd Ed pp.vii + 521 pp.

Abstract: This volume completes the first comprehensive attempt which h to present the theory of statistics as a formal mathematical study, and the a commended for the immense pains he has taken to gather so much materia multiplicity of sources. The volume of work which has been done can be semost useful bibliography of titles, extending over 62 closely printed pages, book concludes. Even this is only a selection. The main sections dealt with it are (1) the logic of statistical inference, comprising chapters on estimation, c intervals and fiducial inference, (2) tests of significance, including the general such tests, (3) regression and multivariate analysis, (4) analysis of variance

of sampling enquiries, and (5) the study of time-series.

The practical statistical worker who is not a professional mathematician will t part hard reading. For the rest he will be concerned to supplement his know statistical tests gleaned from the first volume by the more advanced metho for two and more variables, and in particular regression analysis. In this con many worked examples will be of very great assistance to him. The biologic turn with interest to the sections on analysis of variance and experimental of have been expounded many times, generally from the non-mathematical polynomial but it is important to keep in mind the assumptions behind the common tesvaluable, therefore, to have a mathematical exposition. This proceeds logical special cases of one, two and three-way classifications to the general n-way followed by examples illustrating the use of the z test and the transformatic The principle of randomization then leads up to the practical designs found example, in agricultural field experimentation. In a following chapter, unequa numbers are dealt with, followed by the missing plot technique and then by of the relation between these methods and regression analysis; finally the analysis of covariance is expounded. The design of experiments is conside briefly in a separate chapter, which also hints at the various complexities be enquiries generally. J. W.

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Identifier(s): covariance analysis, plot design, statistical methods, variance analysis

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