

General Bibliography

Nearly all the general ideas described in this book are contained in or stem from Sir Ronald Fisher's pioneer work, the first five chapters of his book (Fisher, 1935) and an early paper (Fisher, 1926) forming excellent introductions to the subject. Other introductory accounts are those of Finney (1955) and Wilson (1952), the latter giving a very readable introduction to a number of aspects of scientific research.

There are several books which, although nonmathematical, give a reasonably detailed account both of the construction of designs and of the full methods for statistical analysis. Cochran and Cox (1957) have given numerous detailed plans as well as worked numerical examples of the statistical analysis of biological experiments. In a book by a group of workers at the I.C.I. (Davies, 1954) there is a very thorough account of the design and analysis of industrial experiments, including modern developments. Quenouille (1953), as well as giving more general material, has discussed long-term experiments and various complications of analysis that can arise. Federer (1955) has in particular given an exhaustive account of the analysis of the more complicated designs. Yates's book (Yates, 1937) should be consulted for a well-exemplified account of the design and analysis of factorial experiments.

The reader who knows something of the theory of statistics should read the book by Kempthorne (1952) for a detailed exposition of the theory of the main types of design. Mann (1949) has dealt particularly with the elegant mathematics underlying the construction of incomplete block designs and systems of confounding.

The more mathematical research on new designs is abstracted in *Mathematical Reviews*; other current work of interest will be found in *Biometrics* and in *Applied Statistics*.

Cochran, W. G., and G. M. Cox. (1957). *Experimental designs*. 2nd ed. New York: Wiley.

Davies, O. L. (editor) (1954). *Design and analysis of industrial experiments*. Edinburgh: Oliver and Boyd.

Federer, W. T. (1955). *Experimental design*. New York: Macmillan.

Finney, D. J. (1955). *Experimental design and its statistical basis*. London: Cambridge University Press.

Fisher, R. A. (1926). The arrangement of field experiments. *J. Min. of Agric.*, 33, 503. Reprinted in *Contributions to mathematical statistics*. New York: Wiley, 1950.

Fisher, R. A. (1935). *Design of experiments*. Edinburgh: Oliver and Boyd (and subsequent editions).

Kempthorne, O. (1952). *Design and analysis of experiments*. New York: Wiley.

Mann, H. B. (1949). *Analysis and design of experiments*. New York: Dover.

Quenouille, M. H. (1953). *Design and analysis of experiment*. London: Griffin.

Wilson, E. B. (1952). *Introduction to scientific research*. New York: McGraw-Hill.

Yates, F. (1937). *Design and analysis of factorial experiments*. Harpenden, England: Imperial Bureau of Soil Science.