

Short Guide to Further Reading on Set Theory

Let me emphasize that no reading beyond the Vaught is required. The following is merely intended as a guide to those who would like to pursue the subject beyond its coverage in the course.

Of Historical Interest.

Cantor G., 'Transfinite Numbers', (trans. P. Jourdain), Dover: New York [55].

Of great historical interest and still an accessible introduction to the subject.

Bernays P. & Fraenkel A. A. 'Axiomatic Set Theory', North-Holland: Amsterdam [58].

An introduction to the elements of set theory by two 'grand-daddies' of the subject. Very readable and very good on the history of the axiomatization of set theory.

Hallett M., 'Cantorian Set Theory and Limitation of Size', Clarendon Press: Oxford [84],

Philosophically sophisticated account of Cantor's contribution to set theory.

Other Introductions

Halmos P. , 'Naive Set Theory', D. Van Norstrand: Princeton [60].

Concise, accessible introduction, written for the technically sophisticated student.

Moschovakis Y., 'Notes on Set Theory', Springer-Verlag: New York [94].

An introduction to the elements of set theory more oriented towards the mathematicians and somewhat more advanced than the Vaught.

The Independence Proofs

Cohen P. J. 'Set Theory and the Continuum Hypothesis', Benjamin: New York [66]

A short readable introduction to the independence proofs by one of the two major contributors to the subject. Not up to date in its results and methods and somewhat informal in its style and approach.

Kunen K., 'Set Theory: An Introduction to Independence Proofs', North-Holland: Amsterdam.

The standard advanced introduction to the topic.