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### Definability in Axiomatic Set Theory II <sup>\*</sup>

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#### Publisher Summary

This chapter discusses the definability in axiomatic set theory. If Zermelo-Fraenkel (ZF) set theory is consistent, so is ZF with the axiom of choice added (ZFC) + generalized continuum hypothesis (GCH) together with the following additional axioms: (1) there exists a nonconstructible real number, (2) every hereditarily-ordinal-definable set is constructible, (3) there is a real number  $a$  such that  $V = L[a]$ , that is, every set is constructible from  $a$ , and (4) every constructible cardinal is a true cardinal. The chapter establishes that the set theory ZFC1 is consistent, where ZFC1 is the set theory obtained from ZFC by adding an axiom that asserts the existence of inaccessible cardinals. The chapter assumes the consistency of ZFC1. The chapter presents a general exposition of forcing is given by Solovay.



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\* The present paper is a continuation of [5]. In [5] proofs were given of results announced in [6]. The present paper contains proofs of the results of Feferman and the author in [3] and [6], and some additional results. We make use of new formulations and results which were published in the meanwhile, in particular those of Solovay [11]. The author is deeply indebted to John W. Addison, Paul J. Cohen, Solomon Feferman, Dana Scott, Robert M. Solovay and Robert L. Vaught for many stimulating and helpful discussions of the problems handled in the present paper. This work was supported by the United States Office for Naval Research, Information Systems Branch, Contract No. N00014 69 C 0192.

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