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Arithmetic Rathjen, Michael, Journal of Symbolic Logic, 1996;  
Arithmetically Saturated Models of Arithmetic Kossak, Roman  
and Schmerl, James H., Notre Dame Journal of Formal Logic,  
1995  $\mathscr{E}^\alpha$ -Arithmetic and Transfinite  
Induction Rose, H. E., Journal of Symbolic Logic, 1972

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According to George Cantor (1845-1918), the founder of set theory), The individual objects of the set are its elements. A set may have no elements, in which case it is called the empty set and denoted by  $\emptyset$ . There is only one empty set.

## Transfinite Numbers and Set Theory

Formal system based on 9 axioms and two primitive notions:  $\in$  (is a member of) and  $\subseteq$  (is a subset of). (ZF1) Two sets are equal if and only if they have the same members. (Axiom of Extensionality) (ZF2) The empty set exists. (Empty Set Axiom) (ZF3) Given any sets  $x$  and  $y$ , there is a set  $z$  whose members are  $x$  and  $y$ .

## Moore Chap 10: Transfinite Mathematics



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In mathematics, transfinite numbers are numbers that are "infinite" in the sense that they are larger than all finite numbers, yet not necessarily absolutely infinite. These include the transfinite cardinals, which are cardinal numbers used to quantify the size of infinite sets, and the transfinite ordinals, which are ordinal numbers used to provide an ordering of infinite sets. The term transfinite was coined by Georg Cantor in 1915, who wished to avoid some of the implications of the word infi

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W. B. Saunders Company, Philadelphia and London 1965, xiii  
+ 406 pp [Book Review]

B. Rotman, Abian Alexander. The theory of sets and ...

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According to transfinite set theory he will go bankrupt in the infinite limit. This result is crucial for set theory. Without it, the fundamental distinction between countable and uncountable sets would break down. The argument is simple: For every dollar we can determine the day when it will be spent.

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Alexander Abian (January 1, 1923 - July 24, 1999), also

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known as Smbat Abian, was an Iranian-American mathematician of Armenian descent who served as a faculty professor of mathematics at Iowa State University, popularly known for his advocacy of altering the Earth's orbit (by destroying the Moon using nuclear weapons) for the benefit of humanity, and for his "Big Suck" Theory of cosmic origins.

## Alexander Abian - Kook Science

Set theory is a branch of mathematical logic that studies sets, which informally are collections of objects. Although any type of object can be collected into a set, set theory is applied most often to objects that are relevant to mathematics. The language of set theory can be used to define nearly all mathematical objects. The modern study of set theory was

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initiated by Georg Cantor and Richard Dedekind in the 1870s. After the discovery of paradoxes in naive set theory, such as Russell's parado

## Set theory - Wikipedia

In set theory, Zermelo–Fraenkel set theory, named after mathematicians Ernst Zermelo and Abraham Fraenkel, is an axiomatic system that was proposed in the early twentieth century in order to formulate a theory of sets free of paradoxes such as Russell's paradox. Today, Zermelo–Fraenkel set theory, with the historically controversial axiom of choice (AC) included, is the standard form of ...

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