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A Course in Formal Languages, Automata and Groups Ian M. Chiswell, 2008-11-14 This book is based on notes for a master's course given at Queen Mary University of London in the 1998-9 session. Such courses in London are quite short and the course consisted essentially of the material in the first three chapters together with a two hour lecture on connections with group theory. Chapter 5 is a considerably expanded version of this. For the course the main sources were the books by Hopcroft and Ullman [20] by Cohen [4] and by Epstein et al [7]. Some use was also made of a later book by Hopcroft and Ullman [21]. The ulterior motive in the first three chapters is to give a rigorous proof that various notions of recursively enumerable language are equivalent. Three such notions are considered. These are generated by a type 0 grammar recognised by a Turing machine deterministic or not and defined by means of a Gödel numbering having defined recursively enumerable for sets of natural numbers. It is hoped that this has been achieved without too many arduous arguments using complicated notation. This is a problem with the entire subject and it is important to understand the idea of the proof which is often quite simple. Two particular places that are heavy going are the proof at the end of Chapter 1 that a language recognised by a Turing machine is type 0 and the proof in Chapter 2 that a Turing machine computable function is partial recursive.

Introduction To The Theory Of Formal Languages Dan A Simovici, 2024-05-17 Formal language theory is a theoretical discipline in computer science that plays a foundational role in areas such as compilers design programming language theory information transmission computational biology etc. This unique volume is a succinct introduction to formal language theory suitable for an one semester course. The main focus is on Chomsky's hierarchy of classes of languages ranging from regular languages to context free context sensitive and recursively enumerable languages. These classes are presented using both generative methods grammars as well as various analytical methods including finite automata pushdown and linearly bounded automata and Turing machine. The useful reference text contains a large number of exercises of various degree of difficulties and is intended as a textbook for an upper level undergraduate or a graduate course in formal languages.

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