

# Feasible Mathematics



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## ***Reviews***

*Merely no terms to spell out. We have read through and i also am confident that i will gonna read yet again again in the future. You will not sense monotony at anytime of your own time (that's what catalogs are for about should you question me).*

*(Pasquale Larkin I)*

## FEASIBLE MATHEMATICS



Book Condition: New. Publisher/Verlag: Springer, Basel | A Mathematical Sciences Institute Workshop, Ithaca, New York, June 1989 | A so-called "effective" algorithm may require arbitrarily large finite amounts of time and space resources, and hence may not be practical in the real world. A "feasible" algorithm is one which only requires a limited amount of space and/or time for execution; the general idea is that a feasible algorithm is one which may be practical on today's or at least tomorrow's computers. There is no definitive analogue of Church's thesis giving a mathematical definition of feasibility; however, the most widely studied mathematical model of feasible computability is polynomial-time computability. Feasible Mathematics includes both the study of feasible computation from a mathematical and logical point of view and the reworking of traditional mathematics from the point of view of feasible computation. The diversity of Feasible Mathematics is illustrated by the contents of this volume which includes papers on weak fragments of arithmetic, on higher type functionals, on bounded linear logic, on sub recursive definitions of complexity classes, on finite model theory, on models of feasible computation for real numbers, on vector spaces and on recursion theory. The Workshop on Feasible Mathematics was sponsored by the Mathematical Sciences Institute and was held at Cornell University, June 26-28, 1989. | Parity and the Pigeonhole Principle.- Computing over the Reals (or an Arbitrary Ring) Abstract.- On Model Theory for Intuitionistic Bounded Arithmetic with Applications to Independence Results.- Sequential, Machine Independent Characterizations of the Parallel Complexity Classes  $AlogTIME$ ,  $ACK$  and  $NC$ .- Characterizations of the Basic Feasible Functionals of Finite Type.- Functional Interpretations of Feasibly Constructive Arithmetic - Abstract.- Polynomial-time Combinatorial Operators are Polynomials.- Isols and Kneser Graphs.- Stockmeyer Induction.- Probabilities of Sentences about Two Linear Orderings.- Bounded Linear Logic: a Modular Approach to Polynomial Time...



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