## THE UNDECIDABLE

## BASIC PAPERS ON UNDECIDABLE PROPOSITIONS, UNSOLVABLE PROBLEMS, AND COMPUTABLE FUNCTIONS

Edited by Prof. Martin Davis, Indexed, 440pp. \$8.95.

A self-contained source book, text, and reference work, featuring Gödel's never-before published 1934 Princeton lecture notes

## CONTENTS:

Kurt Gödel – On Formally Undecidable Propositions of the Principia Mathematica and Related Systems. I; On Undecidable Propositions of Formal Mathematical Systems; On Intuitionistic Arithmetic and Number Theory; On the Length of Proofs; Remarks Before the Princeton Bicentennial Conference on Problems in Mathematics. Alonzo Church – An Unsolvable Problem of Elementary Number Theory; A Note on the Entscheidungsproblem: Alan Turing – On Computable Numbers, with an Application to the Entscheidungsproblem; Systems of Logic Based on Ordinals. J. B. Rosser – An Informal Exposition of Proofs of Gödel's Theorem and Church's Theorem; Extensions of Some Theorems of Gödel and Church. S. C. Kleene – General Recursive Functions of Natural Numbers; Recursive Predicates and Quantifiers. Emil Post – Finite Combinatory Processes, Formulation I; Recursive Unsolvability of a Problem of Thue; Recursively Enumerable Sets of Positive Integers and Their Decision Problems; Absolutely Unsolvable Problems and Relatively Undecidable Propositions – Account of an Anticipation.

**RAVEN PRESS** Hewlett, New York