CONTENTS

| PREFACE ACKNOWLEDGEMENTS | | vii xiii |
|---------------------------|--|-------------|
| | | |
| II. | Derivation Rules and Completeness | 13 |
| III. | Gentzen Systems and Constructive Completeness Proofs | 21 |
| IV. | Quantification Theory with Identity and Functional Constants | 37 |
| V. | First Order Theories with Equality | 43 |
| VI. | Gödel's Incompleteness Theorems: Preliminary Discussion | 49 |
| VII. | Undecidability and Incompleteness | 55 |
| VIII. | Gödel's Second Incompleteness Theorem | 72 |
| IX. | Tarski's Theorems and the Definition of Truth | 85 |
| X. | Some Recursive Function Theory | 97 |
| XI. | Intuitionistic Logic | 105 |
| XII. | Second Order Logic | 116 |
| XIII. | Algebraic Logic | 131 |
| XIV. | Anadic Logic | 151 |
| SELECTED BIBLIOGRAPHY | | 161 |
| INDEX OF NAMES | | 163 |
| INDEX | OF SUBJECTS | 164 |
| INDEX | OF SYMBOLS | 168 |