

# CONTENTS

PREFACE . . . . .	7
PART I.	
Robin Giles, <i>A non-classical logic for physics</i> . . . . .	13
Ryszard Wójcicki, <i>Strongly finite sentential calculi</i> . . . . .	53
PART II.	
Revaz Grigolia, <i>Algebraic analysis of Łukasiewicz-Tarski's n-valued logical systems</i>	81
Stanisław J. Surma, <i>A method of the construction of finite Łukasiewiczian algebras and its application to a Gentzen-style characterization of finite logics</i> . . . . .	93
Ryszard Wójcicki, <i>On matrix representation of consequence operations of Łukasiewicz's sentential calculi</i> . . . . .	101
Marek Tokarz, <i>A method of axiomatization of Łukasiewicz logics</i> . . . . .	113
Wojciech Suchoń, <i>Smullyan's method of constructing Łukasiewicz's n-valued implicational-negational sentential calculus</i> . . . . .	119
PART III.	
Marek Tokarz, <i>Degrees of completeness of Łukasiewicz logics</i> . . . . .	127
Ryszard Wójcicki, <i>The logics stronger than Łukasiewicz's three valued sentential calculus. The notion of degree of maximality versus the notion of degree of completeness</i> . . . . .	135
Grzegorz Malinowski, <i>S-algebras for n-valued sentential calculi of Łukasiewicz. The degrees of maximality of some Łukasiewicz's logics</i> . . . . .	149
Grzegorz Malinowski and Maciej Spasowski, <i>Dual counterparts of Łukasiewicz's sentential calculi</i> . . . . .	161
Marek Tokarz, <i>On structural completeness of Łukasiewicz logics</i> . . . . .	171
PART IV.	
Historical note . . . . .	177
Bibliography of Łukasiewicz's logics . . . . .	189