PHILOSOPHICAL PROBLEMS IN LOGIC

SYNTHESE LIBRARY

MONOGRAPHS ON EPISTEMOLOGY,
LOGIC, METHODOLOGY, PHILOSOPHY OF SCIENCE,
SOCIOLOGY OF SCIENCE AND OF KNOWLEDGE,
AND ON THE MATHEMATICAL METHODS OF
SOCIAL AND BEHAVIORAL SCIENCES

Editors:

DONALD DAVIDSON, *Princeton University*

JAAKKO HINTIKKA, *University of Helsinki and Stanford University*

GABRIËL NUCHELMANS, *University of Leyden*

WESLEY C. SALMON, *Indiana University*

PHILOSOPHICAL PROBLEMS IN LOGIC

Some Recent Developments

edited by

KAREL LAMBERT
University of California, Irvine

D. REIDEL PUBLISHING COMPANY / DORDRECHT-HOLLAND

ISBN-13:978-94-010-3274-2   e-ISBN-13:978-94-010-3272-8
DOI: 10.1007/978-94-010-3272-8

© 1970. D. Reidel Publishing Company, Dordrecht, Holland
Softcover reprint of the hardcover 1st edition 1970

No part of this book may be reproduced in any form, by print, photoprint, microfilm,
or any other means, without written permission from the publisher

PREFACE

The essays in this volume are based on addresses presented during a colloquium on free logic, modal logic and related areas held at the University of California at Irvine, in May of 1968. With the single exception of Dagfinn Føllesdal, whose revised address is included in a recent issue of *Synthese* honoring W. V. Quine, all of the speakers at the Irvine colloquium are contributors to this volume. Thanks are due to Professor A. I. Melden, Chairman of the Department of Philosophy at Irvine, for his enthusiastic support of the colloquium, and to Drs. Gordon Brittan and Daniel Dennett for their help in the administration of the colloquium. Finally, I should also like to thank Professor Ralph W. Gerard, Dean of the Graduate Division of the University of California at Irvine, for the financial support which made the colloquium possible.

KAREL LAMBERT

Laguna Beach, California, 1969

TABLE OF CONTENTS

PREFACE	v
KAREL LAMBERT and BAS C. VAN FRAASSEN / Meaning Relations, Possible Objects, and Possible Worlds	1
JAAKKO HINTIKKA / Existential Presuppositions and Uniqueness Presuppositions	20
RICHMOND H. THOMASON / Some Completeness Results for Modal Predicate Calculi	56
H. LEBLANC and R. K. MEYER / Truth-Value Semantics for the Theory of Types	77
J. M. VICKERS / Probability and Non Standard Logics	102
PETER W. WOODRUFF / Logic and Truth Value Gaps	121
DANA SCOTT / Advice on Modal Logic	143
INDEX OF NAMES	175