

BOSTON STUDIES IN THE PHILOSOPHY OF SCIENCE

EDITED BY ROBERT S. COHEN AND MARX W. WARTOFSKY

VOLUME XXV

JAAKKO HINTIKKA AND UNTO REMES

THE METHOD OF
ANALYSIS

Its Geometrical Origin and Its General Significance



D. REIDEL PUBLISHING COMPANY

DORDRECHT-HOLLAND / BOSTON-U.S.A.

TABLE OF CONTENTS

EDITORIAL NOTE	V
FOREWORD	IX
INTRODUCTION	XIII
I. The Historical Significance of the Idea of Geometrical Analysis	1
II. Pappus on the Direction of Analysis and Synthesis	7
III. What Pappus Says and What He Does: A Comparison and an Example	22
IV. Analysis as Analysis of Figures: The Logic of the Analytical Method	31
V. The Role of Auxiliary Constructions	41
VI. The Problem of the 'Resolution'	49
VII. Analysis as Analysis of Figures: Pappus' Terminology and His Practice	70
VIII. Pappus and the Tradition of Geometrical Analysis	84
IX. On the Significance of the Method of Analysis in Early Modern Science	105
APPENDIX I	
ÁRPÁD K. SZABÓ / Working Backwards and Proving by Synthesis	118
APPENDIX II	
Reply to Professor Szabó	131
INDEX OF NAMES	136
INDEX OF SUBJECTS	138
INDEX OF PASSAGES	141