

CONTENTS

CHAPTER	PAGE
PREFACE	v
I. COORDINATE SYSTEM: DIRECTIONS.	1
II. PLANES AND LINES	14
III. SPHERE	32
IV. HOMOGENEOUS COORDINATES — POINTS AT INFINITY	41
V. GENERAL EQUATION OF THE SECOND DEGREE	54
VI. QUADRIC IN CARTESIAN COORDINATES; STAN- DARD FORMS	89
VII. INTERSECTION OF QUADRICS: SYSTEMS OF QUADRICS.	125
NOTE ON ABSTRACT GEOMETRY	139
SUBJECT INDEX	143