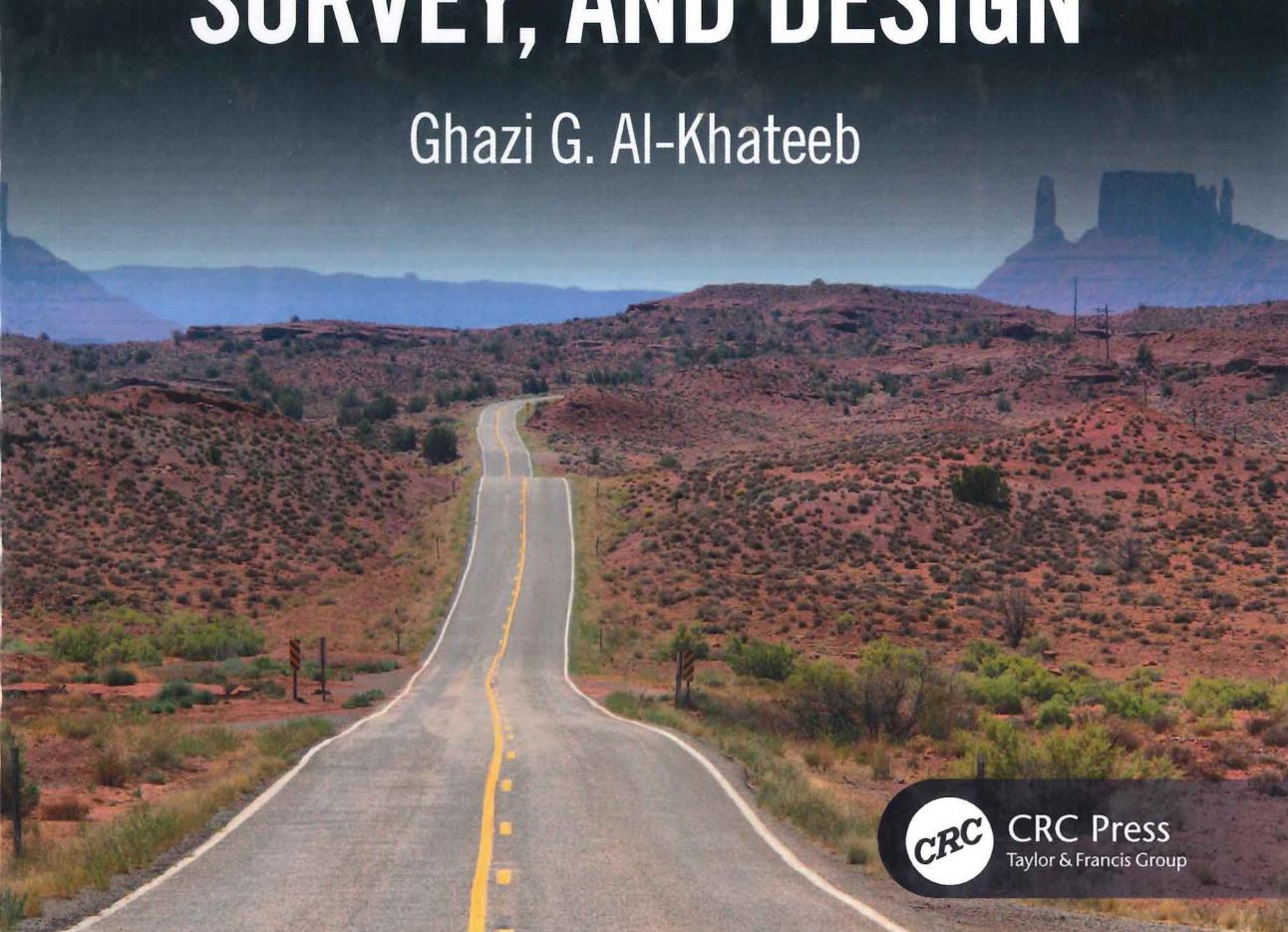


SOLVED PRACTICAL PROBLEMS IN TRANSPORTATION ENGINEERING

HIGHWAY PLANNING, SURVEY, AND DESIGN

Ghazi G. Al-Khateeb



CRC Press
Taylor & Francis Group

บบบ

4,000-

บ 16685095
ก 1255662
จ 2261642

Highway Planning, Survey, and Design



Ghazi G. Al-Khateeb

University of Sharjah, UAE and Jordan University of Science and Technology, Jordan

2025 A.D. ๑



CRC Press

Taylor & Francis Group

Boca Raton London New York

CRC Press is an imprint of the
Taylor & Francis Group, an Informa business

Contents

Preface.....	ix
Author's Bio	xi
Acknowledgments.....	xiii

PART I Urban Transportation Planning

Chapter 1 Terminology	3
Chapter 2 Travel Demand Forecasting	5
Trip Generation	5
Trip Distribution.....	37
Transport Mode Choice.....	73
Traffic Assignment	109
Multiple- Choice Questions and Answers for Chapter 1.....	145

PART II Highway Survey

Chapter 3 Terminology	153
Chapter 4 Errors.....	155
Chapter 5 Leveling.....	215
Chapter 6 Angle Measurement and Traverse	255
Chapter 7 Areas, Earthwork Volumes, and Mass Haul Diagrams	293
Multiple-Choice Questions and Answers for Chapter 3	351

PART III Geometric Design of Highways

Chapter 8 Introduction and Standards	361
Chapter 9 Highway Design Criteria.....	363

Chapter 10	Design of Vertical Curves	371
Chapter 11	Design of Horizontal Curves and Superelevation	433
Chapter 12	Design of Other Facilities	479
Multiple-Choice Questions and Answers for Chapter 8		505
References	513
Index	515