

CONTENTS

INTRODUCTION. Engineering and Technocratic Visions in Mexico 3

J. JUSTIN CASTRO

CHAPTER 1. Poetry in Stone and Iron: The Architect Emilio Dondé Preciat
and the Construction of Modern Mexico City 21

MARCELA SALDAÑA SOLÍS

CHAPTER 2. Revelations from Rediscovered Artifacts of the National School
of Engineers' Construction Materials Collection 39

LUCERO MORELOS RODRÍQUEZ AND FRANCISCO OMAR ESCAMILLA GONZÁLEZ

CHAPTER 3. Engineering the Porfirian Landscape: Technology and Social
Change in the Basin of Mexico, 1890–1911 57

JAMES A. GARZA

CHAPTER 4. The Preoccupation with Safety: Mining Engineers, Education,
and Practice in Modern Mexico 74

ROCIO GOMEZ

CHAPTER 5. Revolutionary Technoscience: Science, Industry, Education,
and the Mexican State, 1910–1946 90

JUAN JOSÉ SALDAÑA

CHAPTER 6. Technocratic Diplomacy: Constitutionalist Engineers as
Diplomats to the United States 113

J. JUSTIN CASTRO

CHAPTER 7. Punitive Engineering and Military Modernization: Reform,
Revolution, and Reconstruction in Mexico and the United States,
1916–1924 134

JAYSON MAURICE PORTER

CHAPTER 8. Flying Machines as a Measure of Mexico: National
Reconstruction, the Cultural Revolution, and the Maturation of
Mexico's National Aviation Program, 1921–1945 157

PETE SOLAND

CHAPTER 9. A Social History of Urban Expertise: Between
Technobureaucratic Rule and the Right to the City in Twentieth-
Century Mexico 181

MATTHEW VITZ

Notes 205

Selected Bibliography 259

Contributors 265

Index 269