

Contents

List of Illustrations..... vi

Preface..... vii

Chapter

1. The Dreamers and Philosophers 3

2. Childhood: Radio and Aeroplanes 20

3. Coming of Age: The Development of Air Travel 49

4. The War Years 67

5. The Return of Air Travel 90

6. The Space Race: Lessons Learned 105

7. The Computer Age: A Small Chip Starts a Big Revolution..... 129

8. The Electronic Airplane: Learning to Fly without an Aircraft 154

9. The Role of Electronics in the Second Century of Flight 175

Glossary 179

Index 183

Illustrations

U.S. Post Office airmail radio station, Salt Lake City, Utah	32
U.S. Mail facility, North Platte, Nebraska	33
Radio station KDEH, ca. 1925	34
U.S. Airmail radio station from mid-1920s	36
Oakland Airway Radio KCV, ca. 1928	37
AN range station as viewed from the air	39
Rotating light beacon used to mark airways	40
Aerial view of AN range station	41
Air traffic control in 1933	52
World's first radio-equipped control tower, Cleveland Municipal Airport	53
Cockpit of DC-3, 1939	59
Interstate airway communications station, ca. 1940	62
U.S. Army Air Corps AN/MPN-1 radar, 1943	85
CAA air traffic control center, ca. 1946	100
Air traffic control center, 1962	101
Flight coordinator moves shrimp boat along an aeronautical chart	102
Closeup view of map used by flight coordinator	103