

AIRPORT DESIGN AND OPERATION

Second Edition

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AIRPORT DESIGN AND OPERATION

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INVESTOR IN PEOPLE

Dedication

We have written this book for all the fools who love the beautiful fragrance of the burnt kerosene.

Tony Kazda and Bob Caves

We would like to thank our wives for their understanding during our writing, because the time involved for this work was stolen from our families. Also we thank 'little' Zuzana and Tom for their help with language and the manipulation of computer software. We appreciate all the help from the professionals who have contributed to the text or have given freely their time and expertise to advise and correct our draft texts.

PREFACE

This book is titled ‘Airport design and operation’. However, the reader will not find chapters devoted exclusively to airport design or airport operation. Airport design and airport operation are closely related and influence each other. A poor design affects the airport operation and results in increasing costs. On the other hand it is difficult to design the airport infrastructure without sound knowledge of the airport operation. This is emphasized throughout the book.

The book does not offer a set of simple instructions for solutions to particular problems. Every airport is unique and a simple generic solution does not exist. Some of the differences that relate to the political and economic situations in Eastern and Western Europe are reflected here. The book explains principles and relationships important for the design of airport facilities, for airport management and for the safe and efficient control of operations. We hope that we have been able to overcome the traditional view that an airport is only the runway and tarmac. An airport is a complex system of facilities and often the most important enterprise of a region. It is an economic generator and catalyst in its catchment area. However, this book is focused on one narrow part of the airport problem, namely design and operation, while bearing the other aspects in mind.

This second edition includes some important changes in the international regulations covering design and operations. It reflects the greater attention being given to security, safety and the environment, together with changes in the technology and the way the air transport industry operates. New sections on collaborative decision making and low visibility operations strengthen the operational content of this book. Two completely new chapters have been added covering the topical problems of cargo and radio –navigation aids and the chapter on passenger terminals has been enhanced considerably.

Tony Kazda and Bob Caves

Zilina, Slovakia and Loughborough UK, April 2007