

Solutions Manual for  
**ROBERT B. COOPER'S**  
Introduction to  
**QUEUEING  
THEORY**  
Second Edition

by **Børge Tilt**



**North-Holland**  
New York • Amsterdam • Oxford



## Foreword

As stated by Børge Tilt in his Preface, he has written this solutions manual with the objective of maximal utility for the instructor, which requires that the solutions be presented in a detailed and orderly fashion. As the reader will see, this objective has been easily met.

I should add that Dr. Tilt's contribution goes far beyond merely solving a large number of (often difficult) exercises. He made many helpful suggestions and corrections, not only to the exercises, but to the text as well. There is no question that his efforts have considerably enhanced the value of my book, and for this I am deeply grateful.

Robert B. Cooper

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## PREFACE

It is my hope that this solutions manual will prove a valuable supplement to Robert B. Cooper's Introduction to Queueing Theory, second edition, and that both teachers and students will benefit from its availability. As far as the teacher is concerned, it offers substantial savings of time, if nothing else. Solutions to the exercises have been written from the point of view that to be of maximal usefulness to the teacher they should contain a detailed and orderly exposition of steps in the solution.

The given solutions are based almost exclusively on information in the book, and such knowledge of mathematics that may reasonably be assumed on the part of the student.

On some of the exercises I have profited from discussions with the author. However, any errors or inaccuracies that may exist are solely my responsibility.

Børge Tilt, Copenhagen, Denmark

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