

Preface

Networking is a fascinating field. Networking involves communication theory, algorithms, technology and diverse environments and situations in an enticing mix. This introductory book on networking technology is meant to convey some of the excitement and variety that may be found in this area. The qualitative coverage of this book spans the smallest possible networks that are implemented on integrated circuit chips to the largest networks conceived that cover the solar system. There is much in between these two extremes.

This book is intended to provide a technology overview in undergraduate and graduate networking courses where it may be used in conjunction with more algorithm-mathematical-oriented texts. It will also be of interest to the individual engineer, computer scientist or information technology professional. I would note that this book grew out of my 2011 Springer brief book, *Basics of Computer Networking*.

I have learned a great deal about networking by teaching networking courses at Stony Brook. I would like to thank a number of people for suggestions on coverage including Tricia Chigan, Victor Frost, Biswanath Mukherjee, Shivendra Panwar and Ruhai Wang. I appreciate Dantong Yu for making me aware of technological trends over the years. I thank Emre Salman and Wendy Tang for proofreading one section of the manuscript. My work life has been made easier by the office staff here of Cathryn Mooney, Susan Nastro, Tim Higgins and Rachel Ingrassia. I have benefitted from the IT assistance of John Joseph and Tony Olivo. I am grateful for the support of my editor at Springer, Mary James, and the project staff of, Murugesan Tamilselvan and Essoudasse Catherine. I wish also to thank Yang Liu and Li Shi for assistance with manuscript preparation.

Finally I dedicate this book to my two daughters, Rachel and Deanna.

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