

Preface

With the dramatic attention drawn by the problems of network economics in wireless communications and networking research community, many economic theories have been applied. Being rewarded with the 2016 and 2014 Nobel Prize of economic science, contract theory has been introduced to this area after the wide researches in game theory, auction theory, and pricing strategy. In this book, we are intend to provide a pure mathematical and economics-oriented approach for introducing contract theoretical concepts, in which we integrate the notions from contract theory and wireless engineering, while emphasizing on how contract theory can be applied in wireless networks. Furthermore, we plan to describe the details and challenges of modeling, analyzing, and designing contract theoretical approaches for communication and networking problems. We believe engineers and researchers in the wireless communication community who are interested in the state-of-the-art research on incentive mechanism and pricing schemes design, resource sharing and trading, cooperation, and networking for a wide range of wireless communication applications will find it useful.

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Yanru Zhang
Zhu Han



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Zhang, Y.; Han, Z.

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