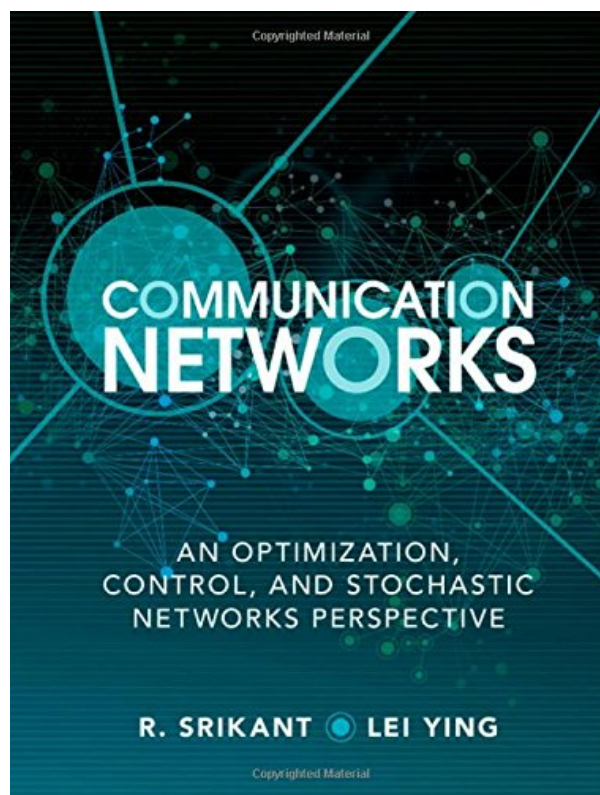
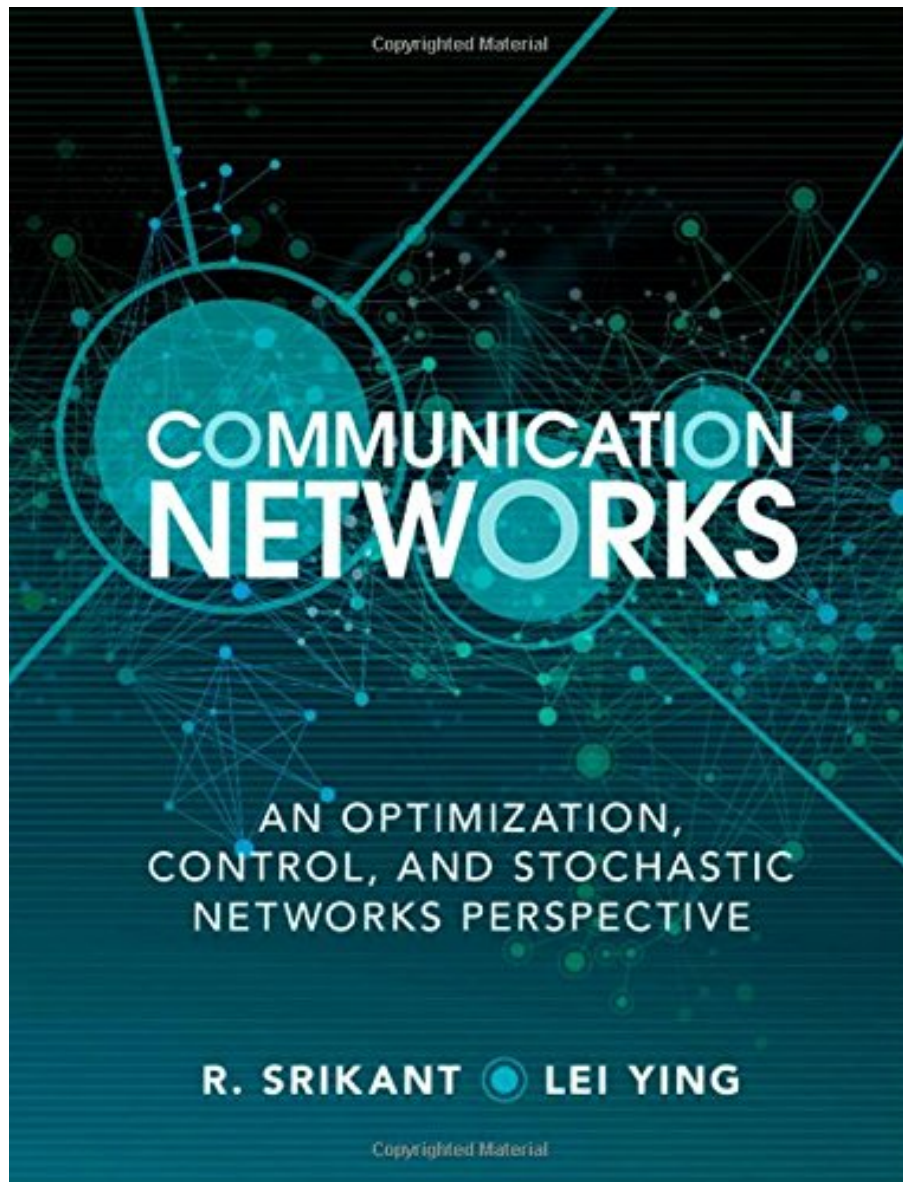


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STOCHASTIC NETWORKS PERSPECTIVE
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Review

"This book by Srikant and Ying fills a major void - an analytical and authoritative study of communication networks that covers many of the major advances made in this area in an easy-to-understand and self-contained manner. It is a must read for any networking student, researcher, or engineer who wishes to have a fundamental understanding of the key operations of communication networks, from network dimensioning and design to congestion control, routing, and scheduling. Throughout the book, the authors have taken pains to explain highly mathematical material in a manner that is accessible to a beginning graduate student. This has often required providing new examples, results, and proofs that are simple and easy to follow, which makes the book attractive to academics and engineers alike. A must have networking book for one's personal library!"

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Provides a modern mathematical approach to the design of communication networks for graduate students, blending control, optimization, and stochastic network theories. A broad range of performance analysis tools are discussed, including important advanced topics that have been made accessible to students for the first time. Taking a top-down approach to network protocol design, the authors begin with the deterministic model and progress to more sophisticated models. Network algorithms and protocols are tied closely to the theory, illustrating the practical engineering applications of each topic. The background behind the mathematical analyses is given before the formal proofs and is supported by worked examples, enabling students to understand the big picture before going into the detailed theory. End-of-chapter problems cover a range of difficulties, with complex problems broken into several parts, and hints to many problems are provided to guide students. Full solutions are available online for instructors.

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