"...a modern and deep, yet accessible, introduction to the models that make up that basis for the theoretical study of random graphs and complex networks. The book strikes a balance between providing broad perspective and analytic rigor that is a pleasure for the reader."
– Adam Wierman, California Institute of Technology

"...focuses on a number of core models that have driven recent progress in the field, including the Erdős-Rényi random graph, the configuration model, and preferential attachment models. A detailed description is given of all their key properties. This is supplemented with insightful remarks about properties of related models so that a full panorama unfolds. As the presentation develops, the link to complex networks provides constant motivation for the routes that are being chosen."
– Frank den Hollander, Leiden University

"...the definitive introduction to the mathematical world of random networks. Written for students with only a modest background in probability theory, it provides plenty of motivation for the topic and introduces the essential tools of probability at a gentle pace. It covers the modern theory of Erdős-Rényi graphs, as well as the most important models of scale-free networks that have emerged in the last 15 years. This is a truly wonderful first volume; the second volume, leading up to current research topics, is eagerly awaited."
– Peter Mörters, University of Bath

"...a wonderful addition to the field. It takes the uninitiated reader from the basics of graduate probability to the classical Erdős-Rényi random graph before terminating at some of the fundamental new models in the discipline. The author does an exemplary job of both motivating the models of interest and building all the necessary mathematical tools required to give a rigorous treatment of these models. Each chapter is complemented by a comprehensive set of exercises allowing the reader ample scope to actively master the techniques covered in the chapter."
– Shankar Bhamidi, University of North Carolina

"...invaluable for anybody who wants to learn or teach the modern theory of random graphs and complex networks. I have used it as a textbook for long and short courses at different levels. Students always like the book because it has all they need: exciting high-level ideas, motivating examples, very clear proofs, and an excellent set of exercises. Easy to read, extremely well structured, and self-contained, the book builds proficiency with random graph models essential for state-of-the-art research."
– Nelly Litvak, University of Twente