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Ob Krimi, Fantasy, Wirtschaft oder persönliche Weiterentwicklung - wir haben alle Genres und Bestseller.Hörprobe: Harry Potter und der Stein der WeisenAutorin: J.K. Rowling Durch Stimmen, Musik und Geräusche auf eine akustische Reise begeben, die aufregender als ein Film ist.Hörprobe: AurisAutoren: Sebastian Fitzek, Vincent Kiesch, Helge May, Judith Scholl Angesagte SPIEGEL-Bestseller und aktuelle Lieblingstitel der Bestsellerlisten. Immer brandneu bei unsHörprobe: Ein verheißenes LandAutor: Barack Obama Geschichten, die es nur bei uns gibt - erdacht von kreativen Köpfen, erzählt von unverwechselbaren Stimmen.Hörprobe: Die Jungen SittenAutorin: Anna Basener Editorial Podcasts Aufregende Interviews, True Crime und Comedy, bei der kein Auge trocken bleibt. Jede Woche neu, kostenlos und unbegrenzt.Hörprobe: Spiegel DailyAutoren: Yasemin Yüksel, Juan Moreno Editorial reviews Publisher Synopsis 'Network Science introduces the reader to basic graph-theory notions, elements of data analysis, statistics, and some of the computational and modeling methods that allow us to interrogate network data sets. Throughout, the book illustrates those ideas with concrete and intuitive examples that also help achieve its main purpose, which is to instill network-based thinking in the reader. The writing is engaging, peppered throughout with stories, anecdotes, and historical connections ... Its discussion of the spread of disease in particular clearly illustrates the necessity of network thinking in solving a fundamental and practical problem that affects us all. The book is carefully structured and visually pleasing, with lots of colorful diagrams, figures, tables, and schematics to help convey fundamental concepts and ideas. Its pedagogical value is significantly enhanced by a Tufte-style exposition that recognizes and works with the nonlinear character of learning.' The wide margins contain bits of information ... that expand on the main text.' Zoltan Toroczkai, Physics Today' ... a pleasure to read. The passion of the author for his field is reflected in the book he has written. Panos Louridas SIGACT Newsletter Read more... User-contributed reviews Add a review and share your thoughts with other readers. Be the first. Networks are everywhere, from the Internet to social networks, from the genome to protein networks that determine biological function. Illustrated throughout in full color, this compelling textbook spans a wide range of topics from physics to computer science, economics, and the social sciences, including network science for metabolisms and gene regulation. From one of the six domains of interaction for explaining why networks are robust to random failures, the author explores how viruses like Ebola and H1N1 spread, and why it is that our friends have more friends than we do. Using numerous real-world examples, this innovatively designed text includes clear delineation between undergraduate and graduate level material. The mathematical formulas and derivations are included within Advanced Topics sections, enabling use at a range of levels. Extensive online resources, including films and software for network analysis, make this a multifaceted companion for anyone with an interest in network science. Just about every field of research is confronted with networks. Metabolic and genetic networks describe how proteins, substrates and genes interact in a cell; social networks quantify the interactions between people in the society; the Internet is a complex web of computers; ecological systems are best described as a web of species. In all these fields the detailed knowledge of the components is insufficient to describe the whole system. Since 1960, when Paul Erdos introduced the influential random graph theory, complex networks have been modeled as fundamentally random graphs. Our work has mounted a serious challenge to this view. By investigating the topology of the World Wide Web, Internet, cellular and social networks, we discovered that networks in nature follow a common blueprint, having scale-free characteristics. These results represent a significant paradigm shift: scale-free networks and the associated dynamic network modeling are a completely unexpected turn of events with a strong impact on every research area for which networks are relevant. We are currently exploring a wide range of network structures, asking questions pertaining to the error and attack tolerance of complex networks, their robustness, and trying to address the dynamics of networks in general. We are also pursuing a strong research program applying network theory to biological systems, aiming to uncover the inner chemical architecture of the cell.Prof. Barabási is a joint appointment between the College of Science and the College of Computer and Information Science.Your Tomorrow Starts Here.Learn More Today.'

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