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Sommario/riassunto	The explosion of new data collection capabilities and artificial intelligence software has created an unprecedented need to rethink the current architectures of existing computer systems. Indeed, legacy

applications are outdated and are ill-equipped to handle the significant increases of data that will be used to drive the social, political, and economic world. Analysis and Design of Next-Generation Architectures identifies the methods of designing and rebuilding our existing systems by integrating new digital technologies that construct sophisticated data repositories and better security. These new systems also require complex security structures that protect the data. Topics and features: Provides an understanding of the impact of 6G on communication and data aggregation Describes how Generative AI is integrated in the analysis and design function Examines the roles of machine language and natural language processing Considers the effects of new architectures on project management Explores integration of ChatGPT in the System Development Life Cycle Discusses enhanced security using Charlotte AI This book is primarily written for software engineers, data architects, cybersecurity staff, application developers, analysts and designers, and project managers. The readings are also a valuable source of knowledge for senior leaders in the digital and information fields (chief information officers, chief digital officers, chief technology officers, and chief information security officers). Dr. Arthur M. Langer is Associate Vice-Provost, Director of the Center for Technology Management and Digital Leadership, and Professor of Practice at the D’Amore-McKim School of Business at Northeastern University. He is also affiliated as Honorary Professor of Practice at Columbia University in the Department of Organizational Leadership at the School of Graduate Education (Teachers College).