

Preface

The book *Antenna Systems and 6G Communication Networks* explores the critical role that advanced antenna technologies will play in the evolution of 6G communication networks. As the telecommunications industry moves towards the next generation of wireless technology, antenna systems are poised to become the backbone of faster, more reliable, and highly interconnected networks. This book delves into the design, optimization, and deployment of antenna systems that can support the high demands of 6G, which will require ultra-low latency, massive connectivity, and high-speed data transfer. Featuring contributions from experts in the field, this comprehensive work covers a wide range of topics, including intelligent antenna systems, MIMO (multiple input, multiple output) technologies, beamforming techniques, and the integration of artificial intelligence for antenna optimization. Through its in-depth exploration, the book aims to provide a thorough understanding of how antenna technologies will shape the future of global communication.