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This book presents a thorough survey of electric railway development from the earliest days of the London Underground to modern electrified main line trains. Coverage includes chapters on signaling and communications, power supplies, and a detailed survey about traction systems, both AC and DC. The introduction, first of mercury arc rectifiers, and later of power semiconductor controls, is also discussed in detail. The author has a long standing interest in engineering history and has written many papers on aspects of railway technology. This book will be of particular interest to scientists and historians interested in the development of electric railways.

This is the only current and in print book covering the full field of transit systems and technology. Beginning with a history of transit and its role in urban development, the book proceeds to define relevant terms and concepts, and then present detailed coverage of all urban transit modes and the most efficient system designs for each. Including coverage of such integral subjects as travel time, vehicle propulsion, system integration, fully supported with equations and analytical methods, this book is the primary resource for students of transit as well as those professionals who design and operate these key pieces of urban infrastructure.

The rail-based transit system is a popular public transportation option, not just with members of the public but also with policy makers looking to install a form of convenient and rapid travel. Even for moving bulk freight long distances, a rail-based system is the most sustainable transportation system currently available. The Handbook of Research on Emerging Innovations in Rail Transportation Engineering presents the latest research on next-generation public transportation infrastructures. Emphasizing a diverse set of topics related to rail-based

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transportation such as funding issues, policy design, traffic planning and forecasting, and engineering solutions, this comprehensive publication is an essential resource for transportation planners, engineers, policymakers, and graduate-level engineering students interested in uncovering research-based solutions, recommendations, and examples of modern rail transportation systems.

The history of communications is extensive and this book explains how communications have evolved from the time of Aeschylus's Agamemnon (458 B.C.) to circa 1940. It discusses the essential factors - technical, political, social, economic and general - which have enabled modern communications to evolve from early primitive stages of development. Considerable endeavor has been taken to present the views of scientists and engineers, newspaper reporters and editors, cartoonists and others so that the progress of communications is seen from the perspective of the times and not from the standpoint of a later generation.

This book provides a fascinating account of the origins and development of the technology that has transformed telecommunications and broadcasting and created the Internet. It depicts this remarkable human achievement by identifying the key innovators whose ideas created today's world of communications, from the Victorian scientists and mathematicians to the present day engineers. Written in a highly readable style, this book shows the impact of each innovation upon today's world of communications technology, and looks to the future for the innovations to come. The author writes from a unique position as he was a principal player in the development of 20th Century telecommunications engineering.

Spacecraft Technology: The Early Years covers the development of space technology in the late 1950s and 1960s, from the launch of Sputnik 1 in October 1957 to the landing of men on the moon in 1969. The text begins by looking at the challenge of getting into space and the development of the space launch vehicle, and moves on to discussion of unmanned satellites and spaceprobes, and the first capsules deployed in Earth orbit and the Apollo missions to the Moon.

This book records the growth of telegraphy over two centuries, depicting the discoveries and ingenuity of the experimenters and engineers involved, the equipment they designed and built, and the organization, applications and effects on society. The two main phases - cable-based techniques that began in the early 19th century and then wireless transmission in the 20th century - parallel the changes in voice and information communications seen recently. Modern methods of data compaction, coding and encryption in today's communications all have their routes in the techniques of the telegraph pioneers.

Charles Stanley turned PYE Radio into a multinational company with thirty thousand employees that contributed to Britain's victory in World War II. PYE Radio went on to become a world leader in mobile communications, helping shape the modern media age. However, by 1966 Stanley had lost both his company and his reputation. This researched text is written within the broad context of the political, technological and business changes of the time, and shows how a very ambitious businessman was brought down by the qualities that made him so successful.