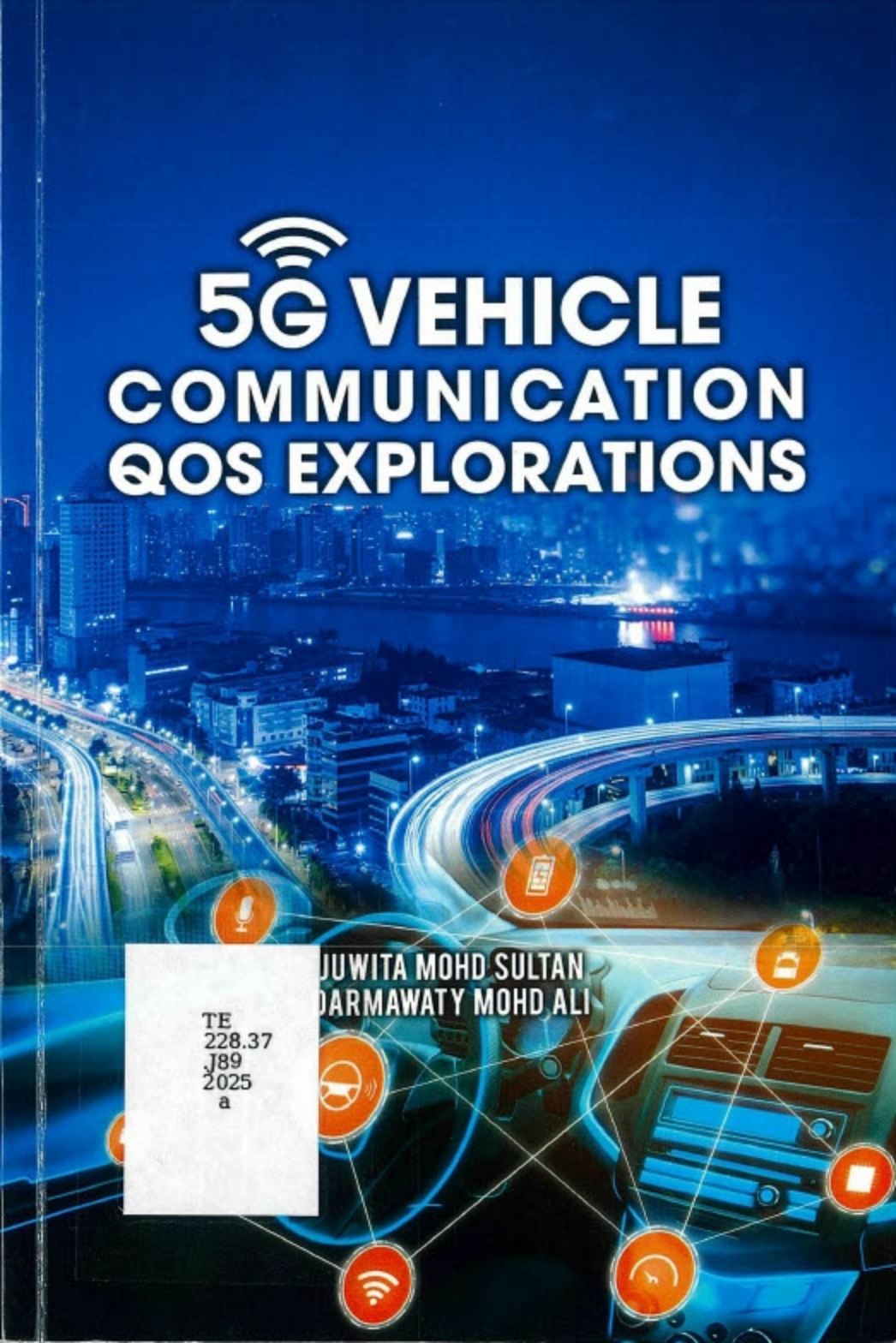
5G VEHICLE COMMUNICATION QOS EXPLORATIONS



JUWITA MOHD SULTAN
DARMAWATY MOHD ALI

5G VEHICLE COMMUNICATION QOS EXPLORATIONS

Cellular Vehicle-to-Everything (C-V2X) is a groundbreaking communication technology enabling vehicles to connect with other vehicles, pedestrians, cyclists, and roadside infrastructure. Through the evolution of 5G, C-V2X is set to offer higher throughput, lower latency, and enhanced reliability. 5G Vehicle Communication QoS Explorations probe into the challenges and innovations in ensuring continuous quality of service (QoS) in this imperative domain. Apart form that, this book provides an extensive review of the theoretical, regulatory, and practical dimensions of C-V2X communications within the 5G network. It offers a detailed analysis of QoS performance, making it an essential resource for engineers, researchers, and policymakers. With its blend of foundational theory, real-world case studies, and insights into future advancements, this book is an invaluable guide to understanding and advancing 5G-enabled vehicle communication systems.

JUWITA MOHD SULTAN is a distinguished academic and researcher in the field of communication systems. She received her BEng degree from the prestigious University of Malaya in Kuala Lumpur, followed by a Master's degree in Wireless Communication Systems from Greenwich University, United Kingdom. Her academic journey continued at Lancaster University, United Kingdom, where she earned her PhD in Communication Systems in 2016. Currently serving as a senior lecturer at Universiti Teknikal Malaysia Melaka (UTeM), Dr. Juwita brings extensive expertise to her role. Her research interests span a wide array of cutting-edge areas, including communication systems, wireless networks, hybrid broadcast networks, and Quality of Service (QoS) optimization. Dr. Juwita's work is dedicated to advancing innovations in wireless communication, and she actively contributes to research that bridges theoretical advancements with practical applications in the evolving landscape of modern networks. Her contributions have solidified her reputation as a respected figure in her field. She can be contacted at email: juwita@utem.edu.my.

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