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Nota di contenuto	Introduction -- Autonomous Driving Basics -- Autonomous Driving Technical Characteristics -- Autonomous Driving Systems -- Safety and Cybersecurity -- Route Specification -- Virtual Model -- Real Model for Navya Arma -- Real Word Operation of Navya Arma -- Legal Framework -- Social Implication -- Conclusions.
Sommario/riassunto	This book presents an interdisciplinary approach to autonomous driving technology design and development. It discusses a methodology of simulation that allows specialists to evaluate autonomous vehicle sensors functionality and integration, energy flow, efficiency, range, and service under public transport. The design, calibration, and physical model behind each autonomous vehicle sensor and component is explained. For each specific vehicle, the powertrain is analyzed, and output results are presented through the use of specific automotive industrial software (IPG CarMaker). The book gives the reader a clear perspective of the key factors influencing the global functionality of autonomous shuttle buses with respect to both their

inner components the variable exterior factors and an exhaustive legal perspective in relation of their presence on public roads.