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Nota di contenuto	M. Herty et al., Reconstruction of traffic speed distributions from kinetic models with uncertainties -- M. Herty et al., From kinetic to macroscopic models and back -- R. Ramadan et al., Structural Properties of the Stability of Jamitons -- C. Balzotti and E. Iacomini, Stop-and-go waves: A Microscopic and a Macroscopic Description -- F. A. Chiarello, An overview of non-local traffic flow models.
Sommario/riassunto	The book originates from the mini-symposium "Mathematical descriptions of traffic flow: micro, macro and kinetic models" organised by the editors within the ICIAM 2019 Congress held in Valencia, Spain, in July 2019. The book is composed of five chapters, which address new research lines in the mathematical modelling of vehicular traffic, at the cutting edge of contemporary research, including traffic automation by means of autonomous vehicles. The contributions span the three most representative scales of mathematical modelling: the microscopic scale of particles, the mesoscopic scale of statistical kinetic description and the macroscopic scale of partial differential equations. The work is addressed to researchers in the field.