The monograph comprehensively defines theoretical designing principles for transport systems and mechanisms, as well as their individual components at the present stage. The results and peculiarities of the work conducted in terms of creation and investigation into Fomin O. V. carrying structures of transport facilities were previously published in some Ukrainian and international specialized Gorbunov M. I. editions, discussed and obtained approval at some Burlutski O. V. international scientific and technical conferences. We wrote this book for scientists and engineers whose , Burlutski O. V. ). V., El Kassem Logvinenko O. A. fields of the professional expertise are related to design and Kazanko O. V. research of railway rolling stock, it also could be useful for the university teachers, students, post-graduate students of the El Kassem O. V. named sphere. **THEORETICAL EORETICAL TRANSPORT MECHANICS Part 1. ASPECTS OF APPLIED ASPECTS TRANSPORT MECHANICS** 유 Part 1. Monograph