

TRACK STIFFNESS AND DAMPING – MEASUREMENTS AND THEORETICAL CONSIDERATIONS

Measurements of ballast stiffness and damping have been made for one of the European Railway Research Committees (ORE D117). Two aspects of the work are reported here:

- A special purpose vehicle was built to measure static and dynamic stiffness and energy losses for a range of ballast depths and formations, on existing BR tracks. Results of these tests are reported.
- Part 2 examines the available theory of foundation vibration and concludes that a relatively simple model could be used to predict ballast behaviour.