

# MODELLING AND SIMULATION OF WHEELSLIDE PROTECTION SYSTEMS

The work detailed in this report is part of a larger project aimed at collecting experimental data of adhesion at the wheel/rail interface and developing systems to optimise use of the available adhesion, both in traction and braking. The report focuses on the braking system only.

The report describes a non-linear computer model used to simulate the performance of existing wheelslide protection (WSP) systems currently in use on BR and to evaluate the overall system response to individual changes to the system.

The report also outlines a linear model which is being developed to determine the characteristics of possible new WSP systems.