

A SURVEY OF CREEP

The phenomenon of creep between wheel and rail is of fundamental importance in the study of railway vehicle dynamics. A survey has been made of theoretical and experimental work in the field and some recent measurements made by BR Research Department are presented.

Recent theoretical advances by Kalker and others have been verified experimentally by a number of workers, notably Johnson, but the problem of combined large creeps and spins remains.

This report provides several conclusions that are relevant to the vehicle dynamics problem.