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ranian Journal of S	cience and Technology, Transaction B: Engineering
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bstract Railway whee dependent. Th the suspensio of patterns are reasons for th Therefore, for measurement region of whee	Is are subject to kinematic oscillation and forces (normal and tangential) which are time and location he forgoing is due to a transverse slope in the tread region and the forces are functions of the vehicle weight, in and braking systems, track topography and irregularities, and the wheel/rail profiles. As a result, a variety e generated in the wheel surface. An investigation in Iranian Railways was launched to determine the e high wheel wear rate of rail vehicles which often cause an asymmetric pattern within a wheelset. the purposes of this research two test bogies were marked and equipped with the apparatus for the further of wheel wear. A development of circumferential pattern, for the first time, was observed in the flange el surfaces acquired by measured patterns created on the test bogies' wheels. Theoretical aspects of this erm are developed and presented in this paper. © Shiraz University.
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Index Keywords Fluids engine Topography; V GEOBASE St	ral movement; Rail vehicle; Wheel flange wear eering descriptors: Harmonic analysis; Kinematics; Oscillators (mechanical); Railroad cars; Railroads; Wear of materials; Wheels ubject Index: harmonic analysis; kinematics; railway; theoretical study ex: Asia; Eurasia; Iran; Middle East