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View at publisher Tangential force variation due to the bogie direction reversal	Rezvani, M.A., Lari, A.A. The effect of kinematic oscillations on harmonic wheel flange wear of rail vehicles (2010) Journal of Mechanics		
procedure	View details of all 4 citations		
Lari, A.A. ^a W, Younesian, D. ^a , Schmid, F. ^b ^a Iran University of Science and Technology, Railway Engineering School, Tehran 16844, Iran ^b University of Sheffield, Mechanical Engineering Department, Mapping Building, Sheffield, S1 3JD, United Kingdom	Inform me when this document is cited in Scopus: Set alert Set feed		
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A range of tangential forces is generated within the contact patch when a wheelset moves on the rail. These forces are intensified when incorporating curved tracks and motored axle rail vehicles [Arrus, P., de Pater, A.D. and Meyers, P., 2002, The stationary motion of a one-axle vehicle along a circular curve with real rail and wheel profiles. Vehicle System Dynamics, 37 (1), 20, 581 The wheelse to is cubiect to fance contact if an unbalanced force remains in a	Showing the 2 most relevant related documents by all shared references:		
(1), 29-58]. The wheelset is subject to flange contact if an unbalanced force remains in a curve towards the high rail gauge face. The resultant force in the transverse direction includes the lateral force, the radial force, and the creep forces in addition to the effect of the frequent wheelset displacement due to the kinematic oscillation [lwnicki, S., 2003, Simulation of wheel-rail contact forces. Fatigue Fracture Engineering Material Structure, 26, 887-900]. This article has focused on a potential variation in some of the forces tide when the wheelset is subject to the kinematic background to the wheelset is subject.	Ansari. M., Hazrati, I.A., Esmailzadeh, E. Wear rate estimation of train wheels using dynamic simulations and field measurements (2008) Vehicle System Dynamics		
to backward and forward movements. A severe wear rate observed within the wheel flange region in Iranian Railways was investigated by operating a test bogie on a curvaceous track. An obvious improvement in the wear rate and wear pattern of the wheels was attained when the second test bogie encountered a bogie direction reversal procedure. This enhancement is considered in this article from the force analysis standpoint.	Zhang, J., Jin, X., Sun, L. Wheel profile numerical optimization technique (2011) Jixie Gongcheng Xuebao/Journal of Mechanical Engineering		
Language of original document	View all related documents based on all shared references or select the shared references to use		
English Author konverde	Find more related documents in Scopus based on:		
Author keywords Bogie direction reversal (BDR); Tangential forces; The wheel/rail interface; Wheel flange wear	Authors Keywords		
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Select: Page	Lari, A.A.,Fallah, A.R.		
1 🗾 Ghonem, H., Kalousek, J.	Enhancing rail vehicle stability using Bogie Direction		
A quantitative model to estimate rail surface failure (1984) Wear, 97 (1), pp. 65-81. Cited 3 times.	Reversal (2011)International Journal of Heavy Vehicle Systems		
View at publisher	Ansari, M.,Esmailzadeh, E.,Younesian, D.		
2 Smith, R.E., Kalousek, J. A design methodology for wheel and rail profiles for use on steered railway vehicles (1991) Wear, 144 (1-2), pp. 329-342. Cited 9 times.	Frequency analysis of finite beams on nonlinear KelvinVoight foundation under moving loads (2011)Journal of Sound and Vibration		
View at publisher	Hide Applications		
 Garg, V.K., Dukkipati, R.V. (1984) Dynamics of Railway Vehicle Systems. Cited 233 times. Toronto, Canada: Academic Press 	, no , pprodutio		
4 Marrus, P., De Pater, A.D., Meyers, P.			
The stationary motion of a one-axle vehicle along a circular curve with real rail and			

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F ===	View at publisher		
5		n of railway vehicles on a curve	d track
	(1998) European Journal of	Mechanics, A/Solids, 17 (6), pp. 100	01-1020. Cited 24 times.
	View at publisher		
6	aspect on the wheel we	combination effect of contact m ar rate and patterns of rail vehic conference. Cited 2 times.	
7 📷	Mace, S.E., Pena, R., Wilsc Effects of wheel-rail cor (1996) Wear, 191 (1-2), pp. View at publisher	ntact geometry on wheel set ste	ering forces
8	Iwnicki, S.		
0	Simulation of wheel-rail	e of Engineering Materials and Struc	tures, 26 (10), pp. 887-900. Cited 19
	View at publisher		
9 📼	Elkins, J.A., Gostling, R.J.		
	A general quasi-static c	urving theory for railway vehicl the Proceedings of the 5th VSD 2nd	
10 📄	(1990) Three-Dimensional I	Elastic Bodies in. Rolling Contact, p. :: Kluwer Academic Publisher, p	45. Cited 483 times.
11 📄	Johnson, K.L. Contact mechanics (1985). Cited 6740 times. ISBN: 0521255767; 978-05	2125576-9	
12 📄	Nik Khah-Bahrami, M., 198	3, Vector Dynamics (Tehran: Tehran	University) (in Persian).
13 📷	SBB report, Eisenbahnama	teur, 59, issue 4, 2005, p. 185.	
14 📺	Prediction of wheel pro	file wear: Methodology and veri amics, 37 (SUPPL.), pp. 502-513. C	
15 📄	Fröhling, R. Strategies to control wh (2003) Vehicle System Dyn	neel profile wear amics, 37 (SUPPL.), pp. 490-501.	
16 📄	UIC510-2 leaflet, 1987, Inte	mational Union of Railways, 2nd edi	n., 10th Amendment.
17 📄	Asadi Lari, A., Fallah, A.R. The effect of operationa wear with the aids of dy (2006) <i>Proceedings of ISMI</i> Paper presented at the, Isfa	E2006	el wear rate and symmetrical
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