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A Case Study of Dis	sasters due to Volcan	nic Activities	and Countermeasu	res against Them in Railway of Japan	
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Over 100 active vo	olcanoes exist in Jap	an, and som	e of them are active	e even now. To prepare for volcanic a	c-
tivities, we must learn how they affected railway systems in past volcanic events, and how railway companies					
applied countermeasu	ures against them. Tl	he authors co	onducted the literatu	are review of 10 volcanic events, which	ch
affected railway syst	tems in Japan in las	t 100 years.	As a result, the au	thors revealed that a volcanic activi	ty
involved ground disp	lacement, seism, ash	n fall and lal	nar (volcanic mud fl	ow), and these accompanying phenon	n-
enon affected many aspects of the railway systems: vehicles, structures, power supply systems, tracks, signal and					
train control systems, and train operation. This result is useful to prepare a countermeasure plan or a research					

and development plan against volcanic activities.