	nary Simulation Co /a KOYAMA	nsidering Static Structure Kyohei NAGAO	Change with Temperature Sl Mitsuru IKEDA	hift
interaction between the OC context, pantograph/catenar three-dimensional catenary	CS and the pantograp ry simulator has been FEM model which c	oh under various condition, n developed, in which lampe can consider static configura	raph, it is important to understated for example, temperature changed-mass pantograph models can tion when temperature changes a calculation example by this s	iges. In this a run along a . This paper