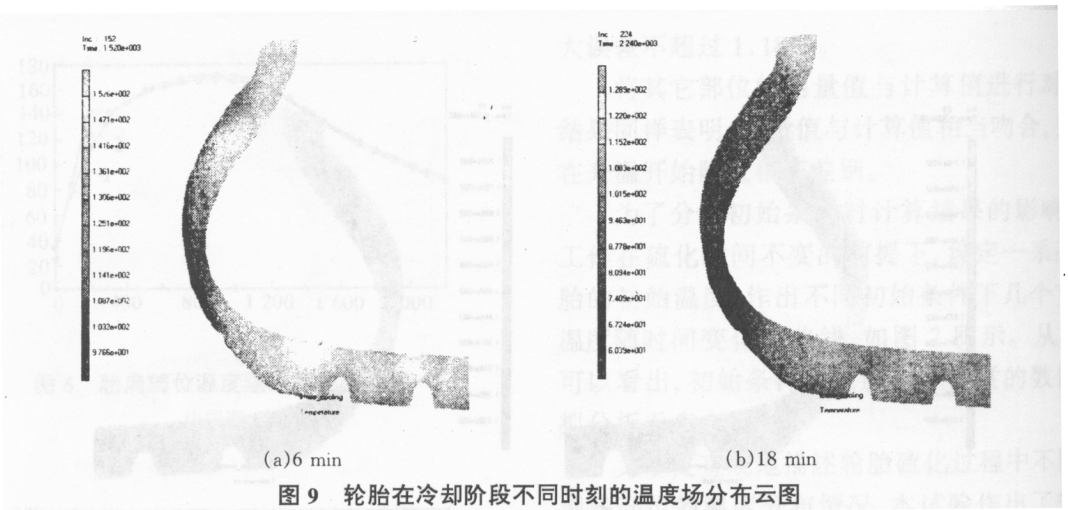

(a)6 min (b)18 min

图9 轮胎在冷却阶段不同时刻的温度场分布云图

在厚度较大的胎肩、胎冠及对流换热因数较小的胎趾部位,温度下降得很缓慢,因而这些部位的后硫化效应不容忽视。

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第11届全国轮胎技术研讨会论文

## Numerical model of tire vulcanization process

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**Abstract**: The principle and method for numerical model of tire vulcanization process with FEM was described. The heating history in different parts of steel-belted tire 175/70R13 was analysed with MARC FEA software, and the calculated results agreed well with the temperatures measured in real time during vulcanization of tire. The temperature profiles at different times during vulcanization were also given, from which it could been seen that the vulcanization prcesses at different parts of tire were quite different.

**Keywords**: tire; vulcanization; finite element; temperature profile

## 川橡集团有限公司第一条IIR内胎问世

**中图分类号**:TQ333.6;TQ336.1⁺1 **文献标识码**:D

四川川橡集团有限公司依靠自身技术和装备力量,自力更生,艰苦奋斗,经过不懈努力,于2001年7月25日生产出川橡历史上第一条IIR内胎。经检测,该IIR内胎的各项性能指标均达到国内先进水平。IIR内胎的研制成功,将有效地提高公司所生产的天府牌轮胎的整体性能,延长轮胎的使用寿命;有助于树立天府牌轮胎良好的市场形象,从而提高产品的市场竞争力。

(四川川橡集团有限公司 张志汤供稿)