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## The study of fatigue property of S500LF wheel spoke steel

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With high frequency fatigue experiment machine PX-100, the fatigue behavior test of wheel spoke steel named S500LF was carried out within 100~120Hz frequency, adopting pull-pressure symmetric force test method. Fatigue limit of tested steel is 291MPa; the S-N curve is illustrated out, and return to the S-N curve equation; The fracture analysis shows that the S500LF wheel spoke steel has good toughness.

### Biography

Cai-Ru Gao has completed his/her PhD from The State Key Laboratory of Rolling and Automation, Northeastern University. He/She is a major member of the "Metal material microstructure and performance control team". He/She has published more than 16 papers in reputed journals.

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