



# Design of High-Speed Railway Turnouts: Theory and Applications

*Ping Wang*

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High-speed turnouts, a key technology for high-speed railways, have a great influence on the safe and stable running of high-speed trains. *Design of High-Speed Railway Turnouts: Theory and Applications*, comprehensively introduces the technical characteristics and requirements of high-speed turnouts, including design theories and methods of turnout layout geometry, wheel and rail relations, track stiffness, welded turnout, turnout conversion, turnout components, and manufacture and laying technologies of turnouts.

Analyzing the operational problems of China's high-speed turnout in particular, this book discusses the control of structure irregularity, state irregularity, geometrical irregularity and dynamic irregularity during the design, manufacture, laying, and maintenance of turnouts. At the end of this reference book, the author provides high-speed turnouts management methods, maintenance standards, testing and monitoring technology, and maintenance technology. *Design of High-Speed Railway Turnouts: Theory and Applications* will enable railway technicians all over the world to develop an in-depth knowledge of the design, manufacture, laying, and maintenance technology of high-speed turnouts.

- The first book in the world to focus explicitly on high-speed turnouts, including design, construction, maintenance and management of high speed turnouts
- Expounds the theory of vehicle-turnout system coupling dynamics in detail, aligning this with several examples of computation, and examines the results of dynamic experiments which validate the theory
- Written by Ping Wang, who is recognized as a leading researcher and main developer of high-speed turnouts in China

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