



Design of High-Speed Railway Turnouts: Theory and Applications

By Ping Wang

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Design of High-Speed Railway Turnouts: Theory and Applications By Ping Wang

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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Editorial Review

About the Author

Professor Wang received his Doctor's degree in railway engineering in 1998 from the Southwest Jiaotong University. He has been engaged in teaching and scientific research work on high speed railway track structure for nearly 20 years

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This Design of High-Speed Railway Turnouts: Theory and Applications book is just not ordinary book, you have after that it the world is in your hands. The benefit you have by reading this book is usually information inside this publication incredible fresh, you will get info which is getting deeper you read a lot of information you will get. This kind of Design of High-Speed Railway Turnouts: Theory and Applications without we recognize teach the one who examining it become critical in considering and analyzing. Don't end up being worry Design of High-Speed Railway Turnouts: Theory and Applications can bring once you are and not make your handbag space or bookshelves' turn out to be full because you can have it in the lovely laptop even cellphone. This Design of High-Speed Railway Turnouts: Theory and Applications having very good arrangement in word in addition to layout, so you will not sense uninterested in reading.

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