

Kiesling, Puschner, Schmeider, Schneider

# Contact Lines for Electric Railways

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# Contact Lines For Electrical Railways Planning

**Friedrich Kiessling, Rainer  
Puschmann, Axel Schmieder**



## **Contact Lines For Electrical Railways Planning:**

Contact Lines for Electric Railways Friedrich Kiessling, Rainer Puschmann, Axel Schmieder, Egid Schneider, 2018-01-03  
Electric traction is the most favourable type of power supply for electric railways from both an ecological and an economic perspective. In the case of urban mass transit and high speed trains it is the only possible type of traction. Its reliability largely depends on contact lines which must operate in all climatic conditions with as high availability and as little maintenance as possible. Extreme demands arise when overhead contact lines are required to provide reliable and safe power transmission to traction vehicles travelling at speeds in excess of 250 km/h. The authors have used their worldwide experience to provide comprehensive descriptions of configuration, mechanical and electrical design, installation, operation and maintenance of contact lines for local and long distance transportation systems including high speed lines. In this book railway company professionals and manufacturers of contact line systems, students and those embarking on a career in this field will find practical guidance in the planning and implementation of systems, product descriptions, specifications and technical data including standards and other regulations. Special emphasis is laid on the interaction of the individual components of power supply especially between contact lines and pantographs. Since large sections of the book are dedicated to system aspects, consultant engineers can also use it as a basis for designing systems as well as interfaces to other subsystems of electric railway engineering. The contents of the book are rounded off by examples of running systems.

Contact Lines for Electrical Railways Friedrich Kiessling, Rainer Puschmann, Axel Schmieder, Egid Schneider, 2009-08-24  
Electric traction is the most favourable type of power supply for electric railways from both ecological and economic perspectives. Its reliability largely depends on contact lines which must operate reliably in all climatic conditions with as little maintenance as possible. Extreme demands arise when overhead contact lines are required to provide reliable and safe power transmission to electric traction vehicles travelling at speeds in excess of 300 km/h. The authors have used their world wide experience to provide comprehensive descriptions of configuration, mechanical and electrical design, installation and operation of contact lines for electric railways on local and long distance transportation systems including high speed lines. The book provides students and those embarking on a career in this field with a detailed presentation of the subject including the electromechanical and structural requirements. Railway company professionals and manufacturers of contact line systems will find practical guidance in the planning and implementation of systems as well as appropriate specifications and the technical data they will need including standards and other regulations. Since large sections of the book are dedicated to the system aspects, consultant engineers can also use it as a basis for designing systems and interfaces to other subsystems of electric railway engineering.

Contact Lines for Electrical Railways Friedrich Kiessling, Rainer Puschmann, Axel Schmieder, 2001  
From both ecological and economical perspectives electric traction is the most favorable type of power supply for railways. Its reliability depends to a large degree on the contact lines which have to operate safely under all relevant climatic conditions needing as

little maintenance as possible. Particularly extreme demands are made if overhead contact lines are expected to ensure safe power transmission to electric traction vehicles travelling at speeds over 300 km/h. The authors have used their world wide experience to provide a clear and comprehensive description of the configuration, mechanical and electrical design, installation and operation of contact lines for electric railways on local and long distance transportation systems. The book provides students and those embarking on a career in this field with a detailed description of the subject including the electromechanical and structural requirements. Railway company professionals and manufacturers of contact line systems will find practical guidance in the planning and implementation of systems as well as appropriate specifications and the technical data they will need including standards and regulations. Since large sections of the book are dedicated to the system aspects, consultant engineers can also use it as a basis for designing systems and interfaces to other subsystems of electric railway engineering.

**Praxisbuch Prozessoptimierung** Ernst Jankulik, Roland Piff, 2009-06-01. Das Buch stellt Modelle für die Messung von Hard und Softfacts vor sowie praxisnahe Beispiele und Lessons Learned aus verschiedenen Branchen. Die Beispiele liefern ein Toolset aus dem man sich Messwerkzeuge und Optimierungsideen für das eigene Unternehmen herausuchen kann.

**Handbook of Railway Vehicle Dynamics, Second Edition** Simon Iwnicki, Maksym Spiryagin, Colin Cole, Tim McSweeney, 2019-11-14. Handbook of Railway Vehicle Dynamics Second Edition provides expanded fully updated coverage of railway vehicle dynamics. With chapters by international experts, this work surveys the main areas of rolling stock and locomotive dynamics. Through mathematical analysis and numerous practical examples, it builds a deep understanding of the wheel/rail interface, suspension and suspension component design, simulation and testing of electrical and mechanical systems and interaction with the surrounding infrastructure and noise and vibration. Topics added in the Second Edition include magnetic levitation rail vehicle aerodynamics and advances in traction and braking for full trains and individual vehicles.

**Communication Technologies for Vehicles** Francine Krief, Hasnaâ Aniss, Léo Mendiboure, Serge Chaumette, Marion Berbineau, 2020-12-19. This book constitutes the refereed proceedings of the 15th International Workshop on Communication Technologies for Vehicles (Nets4Cars, Nets4Trains, Nets4Aircraft 2020) held in Bordeaux, France, in November 2020. The 18 full papers were carefully reviewed and selected from 22 submissions. The selected papers present original research results in areas related to the physical layer, communication protocols and standards, mobility and traffic models, experimental and field operational testing and performance analysis.

*Proceedings of the 1st International Workshop on High-Speed and Intercity Railways* Yi-Qing Ni, Xiao-Wei Ye, 2012-02-21. This book contains the papers included in the proceedings of the 1st International Workshop on High speed and Intercity Railways (IWHIR 2011) held in Shenzhen and Hong Kong, China, from July 19 to July 22, 2011, which is organized by The Hong Kong Polytechnic University in collaboration with Southwest Jiaotong University, Beijing Jiaotong University, Dalian Jiaotong University, China Engineering Consultants Inc, Zhejiang University and Tsinghua University. Continuing the great initiatives and momentums of

the rapid development in high speed and intercity railways worldwide in recent years IWHIR 2011 aims at providing a platform for academic scholars and practicing engineers to share knowledge and experience to promote collaboration and to strengthen R D activities related to railway engineering Engineers scientists professors and students from universities research institutes and related industrial companies have been cordially invited to participate in the workshop These papers have covered a wide range of issues concerning high speed and intercity railways in the theoretical numerical and experimental work pertaining to high speed and intercity railways Showcasing diversity and quality these papers report the state of the art and point to future directions of research and development in this exciting area **Electrical World** ,1909

**Proceedings of the 3rd International Conference on Electrical and Information Technologies for Rail Transportation (EITRT) 2017** Limin Jia,Yong Qin,Jianguo Suo,Jianghua Feng,Lijun Diao,Min An,2018-03-30 The proceedings collect the latest research trends methods and experimental results in the field of electrical and information technologies for rail transportation The topics cover novel traction drive technologies of rail transportation safety technology of rail transportation system rail transportation information technology rail transportation operational management technology rail transportation cutting edge theory and technology etc The proceedings can be a valuable reference work for researchers and graduate students working in rail transportation electrical engineering and information technologies

*Proceedings of the 5th International Conference on Electrical Engineering and Information Technologies for Rail Transportation (EITRT) 2021* Limin Jia,Yong Qin,Jianying Liang,Zhigang Liu,Lijun Diao,Min An,2022-02-21 This book reflects the latest research trends methods and experimental results in the field of electrical and information technologies for rail transportation which covers abundant state of the art research theories and ideas As a vital field of research that is highly relevant to current developments in a number of technological domains the subjects it covered include intelligent computing information processing communication technology automatic control etc The objective of the proceedings is to provide a major interdisciplinary forum for researchers engineers academicians and industrial professionals to present the most innovative research and development in the field of rail transportation electrical and information technologies Engineers and researchers in academia industry and government will also explore an insightful view of the solutions that combine ideas from multiple disciplines in this field The volumes serve as an excellent reference work for researchers and graduate students working on rail transportation and electrical and information technologies *Electric Railway Journal* ,1917

**Journal of Electricity, Power, and Gas** ,1904 **The Street Railway Journal** ,1899 **The Electrical World and Engineer** ,1899 **Electrical Review and Western Electrician with which is Consolidated Electrocraft** ,1917

*Metropolitan Management, Transportation and Planning* ,1921 *New York Review of the Telegraph and Telephone and Electrical Journal* ,1904 *Municipal Journal and Engineer* ,1910 **Municipal Journal and Public Works** ,1910

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