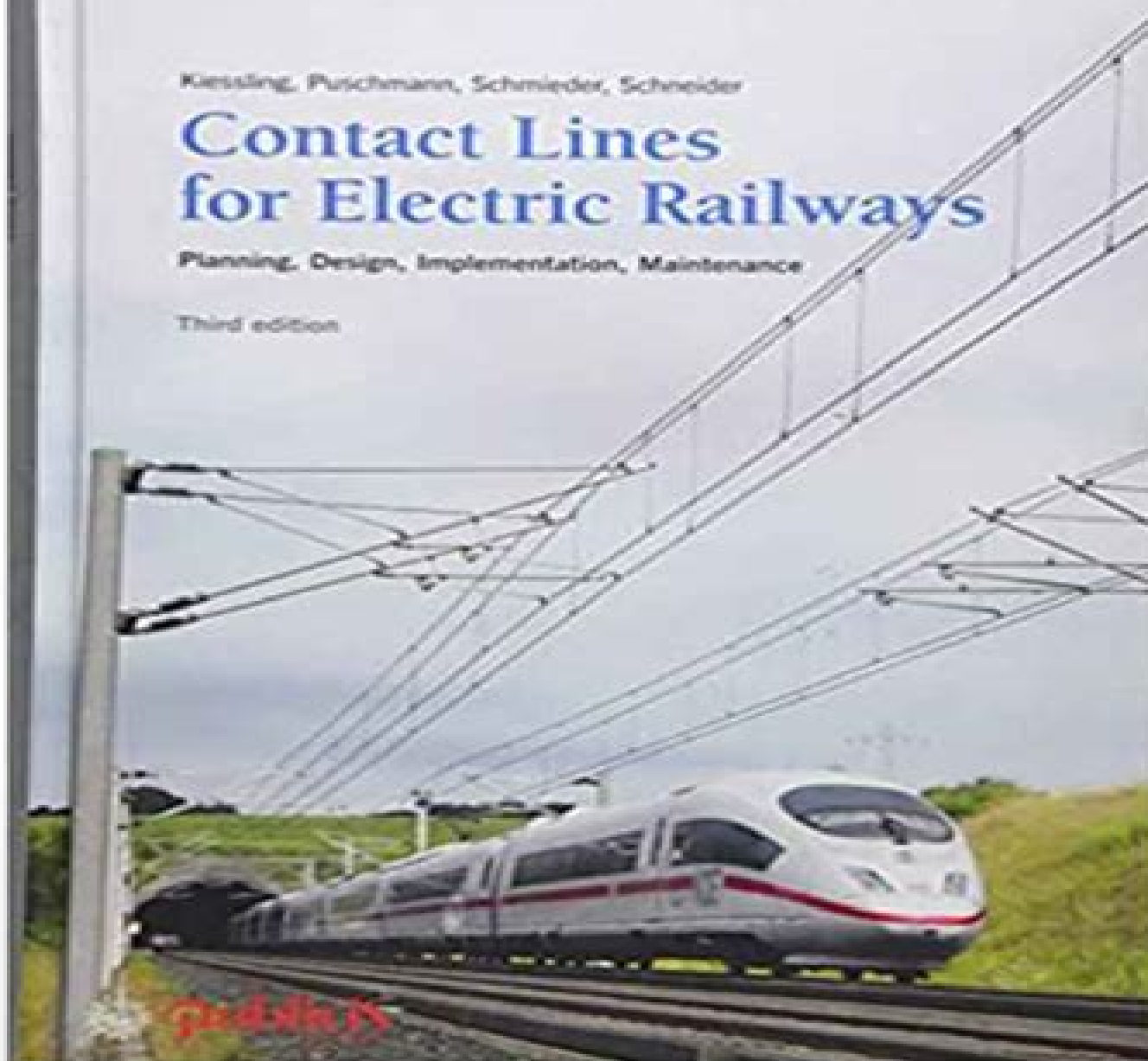


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# Contact Lines for Electric Railways

Planning, Design, Implementation, Maintenance

Third edition



# Contact Lines For Electrical Railways Planning Design Implementation

**Alphose Zingoni**



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

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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 heraussuchen 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.

*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.

*Communication Technologies for Vehicles* Francine Krief, Hasna 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

*Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications* Alphose Zingoni, 2019-08-21 Advances in Engineering Materials Structures and Systems Innovations Mechanics and Applications comprises 411 papers that were presented at SEMC 2019 the Seventh International Conference on Structural Engineering Mechanics and Computation held in Cape Town South Africa from 2 to 4 September 2019 The subject matter reflects the broad scope of SEMC conferences and covers a wide variety of engineering materials both traditional and innovative and many types of structures The many topics featured in these Proceedings can be classified into six broad categories that deal with i the mechanics of materials and fluids elasticity plasticity flow through porous media fluid dynamics fracture fatigue damage delamination corrosion bond creep shrinkage etc ii the mechanics of structures and systems structural dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii the numerical modelling and experimental testing of materials and structures numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning The SEMC 2019 Proceedings will be of interest to civil structural mechanical marine and aerospace engineers Researchers developers practitioners and academics in these disciplines will find them useful Two versions of the papers are available Short versions intended to be concise but self contained summaries of the full papers are in this printed book The full versions of the papers are in the e book

**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

**Proceedings of the 6th International Conference on Electrical Engineering and Information Technologies for Rail Transportation (EITRT) 2023** Ming Gong,Limin Jia,Yong Qin,Jianwei Yang,Zhigang Liu,Min An,2024-01-03 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 researchersand graduate students working on rail transportation and electrical and information technologies

Proceedings of the ... IEEE/ASME Joint Rail Conference ,2007      **The British National Bibliography** Arthur James Wells,2009      **Jane's World Railways 2008-2009** Ken Harris,2008-11 This directory gives the reader data on railway systems and railway equipment manufacturers across the globe The text is split into two sections a country by country listing of the railway systems of the world and the railway manufacturing and services industries

**Electrical & Electronics Abstracts** ,1997      **Jane's World Railways, 1987-88** Geoffrey Freeman Allen,1987-10      *Railway Directory* ,2006      The Virginia Engineer ,2003      *Science Abstracts* ,1956      Electrical Times ,1962      *Proceedings - International Conference on Large High Voltage Electric Systems (CIGRE)*. International Conference on Large High Voltage Electric Systems,1982

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