

## Contact Lines For Electrical Railways Planning

Contact Lines for Electrical Railways  
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Praxisbuch Prozessoptimierung  
Electrical World  
Electric Railway Review  
Handbook of Modern Electric Railway Methods and Practices  
Electrical Engineer  
Electric Railway Journal  
The Electrical World  
Metropolitan Management, Transportation and Planning  
Electric Railway Company of the United States, Complainant, Vs. the Jamaica and Brooklyn Road Company, Defendant  
Transit Journal  
Electricity  
Electric Railway Society Journal  
Electric Railway Practices  
Electric Railway Practices  
Engineering News and American Railway Journal  
Electrical Times  
Western Electrician  
Friedrich Kiessling  
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Ernst Jankulik  
American Transit Association  
Electric railway company of the United States, complainant  
American Transit Association.  
Charles A. Coffin Prize Committee

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*Friedrich Kiessling Friedrich Kiessling Friedrich Kiessling Ernst Jankulik American Transit Association Electric railway company of the United States, complainant American Transit Association. Charles A. Coffin Prize Committee*

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

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

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

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presentations made to the charles a coffin foundation

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