

Contact Lines For Electrical Railways Planning

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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

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

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this highly illustrated 1897 handbook by a leading electrical engineer offers unique insights into the earliest days of electric locomotion

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