

## RAILWAY ELECTRIFICATION

### 9.1 Introduction

**D**espite the competition of airplanes, buses, trucks and cars, trains still play a major transportation role in society, filling specific markets such as high-speed and non-high-speed intercity passenger service, heavy haul of minerals and freight, urban light rail systems and commuter rail.



Figure 9-1 Overhead High Speed Railway - Courtesy of UTK, Inc.

This chapter presents an introduction to electrification of rail systems. It is intended to provide a historical perspective and an overview of typical design principles, construction practice, and maintenance considerations. Those interested in learning more are invited to review AREMA's Manual for Railway Engineering, Chapter 33, Electrical Energy Utilization, and Chapter 17, High Speed Rail Systems, which contain sections devoted to electrification power supplies, traction power systems studies and guidelines for the design of overhead contact systems.

### 9.2 Development of Motive Power for Railways

The earliest recorded tramway served a mine in Germany, beginning in about 1550. The tramway was developed because the rolling resistance of wheels on rails was much less

# Railway Electrification 9 1 Introduction D

**Peipei Pang**



## **Railway Electrification 9 1 Introduction D:**

*Transportation Energy and Dynamics* Sunil Kumar Sharma, Ram Krishna Upadhyay, Vikram Kumar, Hardikk Valera, 2023-06-13 This book provides a macro level understanding of transportation as an industry through the lens of all the stakeholders that make up the ecosystem It aids understanding about the transportation ecosystem its components challenges contribution to economic growth and the interplay between the stakeholders that govern the system The contents also examine the background and history of transportation emphasizing the fundamental role and importance the industry plays in companies society and the environment in which transportation service is provided The book also provides an overview of carrier operations management technology and the strategic principles for the successful management of different modes of transportation This book is of interest to those working in academia industry and policy in the areas of transportation

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