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Infrastructure Design, Signalling and Security in Railway May 02 2021 Railway transportation has become one of the main technological advances of our society. Since the first railway used to carry coal from a mine in Shropshire (England, 1600), a lot of efforts have been made to improve this transportation concept. One of its milestones was the invention and development of the steam locomotive, but commercial rail travels became practical two hundred years later. From these first attempts, railway infrastructures, signalling and security have evolved and become more complex than those performed in its earlier stages. This book will provide readers a comprehensive technical

guide, covering these topics and presenting a brief overview of selected railway systems in the world. The objective of the book is to serve as a valuable reference for students, educators, scientists, faculty members, researchers, and engineers.

Ballast Railroad Design: SMART-UOW Approach Feb 20 2023 The rail network plays an essential role in transport infrastructure worldwide. A ballasted track is commonly used for several reasons, including economic considerations, load bearing capacity, rapid drainage and ease of maintenance. Given the ever-increasing demand for trains to carry heavier axle loads at greater speeds, traditional

design and construction must undergo inevitable changes for sustainable performance. Ballast is an unbounded granular assembly that displaces when subjected to repeated train loading affecting track stability. During heavy haul operations, ballast progressively deteriorates and the infiltration of fluidized fines (mud pumping) from the underlying substructure and subgrade decreases its shear strength and also impedes drainage, while increasing track deformation and associated maintenance. Features: serves as a useful guide to assist the practitioner in new track design as well as remediating existing tracks. research discussed in this book has made considerable impact on the railway industry. resulting from collaborative research between academia and industry, incorporating sophisticated laboratory tests, computational modelling and field studies. This book presents a comprehensive procedure for the design of ballasted tracks based on a rational approach that combines extensive laboratory

testing, computational modelling and field measurements conducted over the past two decades. Ballast Railroad Design: SMART-UOW Approach will not only become an imperative design aid for rail practitioners, but will also be a valuable resource for postgraduate students and researchers alike in railway engineering.

Modern Trains and Splendid Stations Jun 14 2022 "Inter-city rail travel is one of the dominant facts of modern life. From the early nineteenth century, when the first train stations - "cathedrals of technology," buildings without precedent in the history of architecture - were constructed, these focal points of transportation have enjoyed a unique status in public life. They have come a long way from the simple wooden shed erected in Liverpool, England, in 1830." "In the wake of the rail renaissance of the 1980s and 1990s, new train stations, from the U.S. to Japan, must respond to increasingly complex challenges, as high-speed trains become more and more common and the next generation of

magnetically levitated trains approaches. The state-of-the-art examples featured in *Modern Trains and Splendid Stations* are analyzed from several perspectives: as generators of urban renewal; as new architectural icons; and as connecting points from different means of transportation. Such internationally renowned architects as Helmut Jahn (in the United States), Nicholas Grimshaw (in England), and Arata Isozaki (in Japan) have all been involved in station design."--BOOK JACKET. Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Railway Track Design... Sep 17 2022

[Realistic Model Railroad Design](#) Aug 29 2023

Design a freelanced or prototype-based model railroad by selecting a time period, modeling geography, creating a roster, using graphics, and following paint schemes.

Design of High-Speed Railway Turnouts Dec 01 2023 High-speed turnouts, a key technology for high-speed railways, have a great influence

on the safe and stable running of high-speed trains. *Design of High-Speed Railway Turnouts: Theory and Applications*, comprehensively introduces the technical characteristics and requirements of high-speed turnouts, including design theories and methods of turnout layout geometry, wheel and rail relations, track stiffness, welded turnout, turnout conversion, turnout components, and manufacture and laying technologies of turnouts. Analyzing the operational problems of China's high-speed turnout in particular, this book discusses the control of structure irregularity, state irregularity, geometrical irregularity and dynamic irregularity during the design, manufacture, laying, and maintenance of turnouts. At the end of this reference book, the author provides high-speed turnouts management methods, maintenance standards, testing and monitoring technology, and maintenance technology. *Design of High-Speed Railway Turnouts: Theory and Applications* will

enable railway technicians all over the world to develop an in-depth knowledge of the design, manufacture, laying, and maintenance technology of high-speed turnouts. The first book in the world to focus explicitly on high-speed turnouts, including design, construction, maintenance and management of high speed turnouts Expounds the theory of vehicle-turnout system coupling dynamics in detail, aligning this with several examples of computation, and examines the results of dynamic experiments which validate the theory Written by Ping Wang, who is recognized as a leading researcher and main developer of high-speed turnouts in China
The Design of Typical Steel Railway Bridges Jul 16 2022

[Railway Stations](#) Feb 03 2024 This work discusses the planning, design and management of railway stations. It examines a range of stations. Commercial aspects and matters of image and branding are explored alongside technical and operational issues.

[Railway Transportation Systems](#) Mar 04 2024 Incorporates More Than 25 Years of Research and Experience
Railway Transportation Systems: Design, Construction and Operation presents a comprehensive overview of railway passenger and freight transport systems, from design through to construction and operation. It covers the range of railway passenger systems, from conventional and high speed inter
The Modern Station Jun 26 2023 An exciting new generation of railway architecture has emerged in Europe and elsewhere over the past decade. This book explains the reasons for the renaissance of the station as a building type and the current changes it is undergoing. The functional, social and technical factors which shape railway architecture are examined. As stations are essential elements of sustainable development, the environmental benefits of railways are also discussed. Essential guidance is provided for those who design, commission or manage railway stations. By drawing on

technical design manuals and examples of recent stations (many designed by leading architects) the book gives help and instruction to all those with an interest in the future of railway architecture.

Principles of Railway Location and Design

Jul 08 2024 Principles of Railway Location and Design examines classification and classing methods of railway networks and expresses theories and methods of railway route selection and design. Railway networks represent modal transfer, which significantly alleviates traffic congestion and pollution The book introduces capacity enhancing methods for existing railways and implementation plans and technical conditions for improving existing passenger railways, building new high speed railways and developing heavy haul railways. The book covers ten areas of unfavorable geological conditions including slide areas, debris flow areas and earthquake areas. Practical solutions with detailed presentations have been provided. This

valuable reference book summarizes and extracts the high speed railway route selection design. The book covers basic principles and methods by referring to research data of high speed railway technology in China and other countries, as well as engineering practice data. Provides classification and classing methods of railway networks, integrated with principles and methods of railway route selection and design Describes enhancing methods for existing railways, and an implementation plan for existing passenger railways, new high speed railways and heavy haul railways Presents route selection principles and methods for regions with bad geological conditions, including landslide, debris flow and earthquake

Railway Engineering Design & Operation

Jun 07 2024 Originating from presentations at the 17th International Conference on Railway Engineering Design and Operation, this volume contains selected research works on the topic. It is important to continue to update the use of

advanced systems by promoting general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. The included papers help to facilitate this goal and place a key focus on the applications of computer systems in advanced railway engineering. These research studies will be of interest to all those involved in the development of railways, including managers, consultants, railway engineers, designers of advanced train control systems and computer specialists.

Railway Systems: Design, Construction and Operation May 26 2023 Railway refers to the system of transport that involves vehicles running on rails, which in turn are located on tracks. The connected series of rail vehicles is known as a train. Since the frictional resistance on rails is lower than rubber-tired vehicles, trains can be attached in a longer sequence. Railway transport can be powered either by electricity or produce their own power, mostly

through a diesel engine. There are two major types of tracks which are used in railway systems - ballasted track and ballastless track. The various processes, which are a part of railway construction are laying bottom ballast, providing anchorage, laying steel rail, laying top ballast and installing rail anchor and rail brace.

The topics included in this book on railway systems are of utmost significance and bound to provide incredible insights to readers. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of railway systems. This book will serve as a reference to a broad spectrum of readers.

Railway Design Since 1830 Feb 08 2022

Model Railway Planning and Design Handbook Nov 07 2021

Planning, Designing and Making Railway Layouts in a Small Space Nov 19 2022 If you want to build a model railway but feel constricted and frustrated because you only have a very limited amount of space available,

then this is the book for you. The author demonstrates that a railway modeller need never be 'stuck for space', and shows the reader how to design and construct a rewarding layout in even the smallest of spaces. He emphasizes that once you have found a home for your layout, be it in a garden shed, a spare room, a bookcase or even the top of an ironing board, the same guiding principles apply. These are all fully explained in a very practical way and include the basic layout shapes, the importance of scale, standard and narrow gauges, fiddle yards, train length, curves and turnouts as well as track design elements such as head shunts, kickback sidings and run-round loops. There are individual chapters on: potential spaces; design principles; basic layout shapes; the art of compromise; levels, layers and shelves; planning your layout; baseboards; classic designs and micro-layouts. This fascinating book shows the reader that no matter how small the space, there is always a model railway layout that can be

built in it. Aimed at all railway modellers of all levels of ability. Covers how to design, plan and construct a rewarding layout in the smallest of spaces i.e. garden shed, bookcase and even a micro-layout in a box file. Superbly illustrated with 131 colour photographs. Richard Bardsley is an experienced small-layout builder in N gauge and 00 gauge and exhibits widely at numerous shows.

The Theory and Method of Design and Optimization for Railway Intelligent Transportation Systems (RITS) Oct 19 2022

This book explains the theory and methods of system optimization design for railway intelligent transportation systems (RITS), which optimizes RITS total performance by decreasing the difficulty and cost of system development and increasing the system efficiency. Readers will understand key concepts of RITS and the latest research relevant to China and other countries where RITSs have been developed. The book is suitable for university scholars in

the field of railway transportation.

Computers in Railways XIV May 14 2022 This book contains the 14th proceedings of the, very successful, International conference on Railway Engineering Design and Optimization (COMPRAIL 2014), which began in 1987.

Model Railway Design Manual Mar 24 2023

Before beginning construction work on a model railway it is essential to have a workable design. The plan needs to take into account the space, time, budget and personal skills available, as well as the type of railway to be modelled. Here, Cyril Freezer draws on more than 50 years experience in designing and building model railways to explain how each stage should be undertaken. Includes 150 specially-drawn track layout diagrams.

Computers in Railways XVI Mar 31 2021

Forming the 16th volume from this successful series, this book contains papers from the 16th International Conference on Railway Engineering Design and Operation. The included

papers are a collection of works from researchers, academics and practitioners involved in railway engineering. There is a continuing need to update the use of advanced systems, promoting their general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. By emphasising the use of computer systems in advanced railway engineering, this book contributes to this goal. These research studies will be of interest to all those involved in the development of railways, including managers, consultants, railway engineers, designers of advanced train control systems and computer specialists.

British Rail, 1948-83 Dec 09 2021

Design and Construction of Modern Steel Railway Bridges Dec 21 2022 This new edition encompasses current design methods used for steel railway bridges in both SI and Imperial (US Customary) units. It discusses the planning of

railway bridges and the appropriate types of bridges based on planning considerations.

Track Design Handbook for Light Rail

Transit Apr 24 2023 TCRP report 155 provides guidelines and descriptions for the design of various common types of light rail transit (LRT) track. The track structure types include ballasted track, direct fixation ("ballastless") track, and embedded track. The report considers the characteristics and interfaces of vehicle wheels and rail, tracks and wheel gauges, rail sections, alignments, speeds, and track moduli. The report includes chapters on vehicles, alignment, track structures, track components, special track work, aerial structures/bridges, corrosion control, noise and vibration, signals, traction power, and the integration of LRT track into urban streets.

Design and Simulation of Rail Vehicles Oct 07 2021 Keep Up with Advancements in the Field of Rail Vehicle Design A thorough understanding of the issues that affect dynamic

performance, as well as more inventive methods for controlling rail vehicle dynamics, is needed to meet the demands for safer rail vehicles with higher speed and loads. Design and Simulation of Rail Vehicles examines the field of rail vehicle design, maintenance, and modification, as well as performance issues related to these types of vehicles. This text analyzes rail vehicle design issues and dynamic responses, describes the design and features of rail vehicles, and introduces methods that address the operational conditions of this complex system. Progresses from Basic Concepts and Terminology to Detailed Explanations and Techniques Focused on both non-powered and powered rail vehicles—freight and passenger rolling stock, locomotives, and self-powered vehicles used for public transport—this book introduces the problems involved in designing and modeling all types of rail vehicles. It explores the applications of vehicle dynamics, train operations, and track infrastructure maintenance. It introduces the

fundamentals of locomotive design, multibody dynamics, and longitudinal train dynamics, and discusses co-simulation techniques. It also highlights recent advances in rail vehicle design, and contains applicable standards and acceptance tests from around the world. • Includes multidisciplinary simulation approaches • Contains an understanding of rail vehicle design and simulation techniques • Establishes the connection between theory and many simulation examples • Presents simple to advanced rail vehicle design and simulation methodologies Design and Simulation of Rail Vehicles serves as an introductory text for graduate or senior undergraduate students, and as a reference for practicing engineers and researchers investigating performance issues related to these types of vehicles.

Computers in Railways XV Aug 17 2022 This title incorporates the 15th proceedings of the very successful International Conference on Railway Engineering Design and Operation

(COMPRAIL) series, which began in Frankfurt 1987 and continued in Rome (1990); Washington (1992); Madrid (1994); Berlin (1996); Lisbon (1998); Bologna (2000); Lemnos (2002); Dresden (2004); Prague (2006); Toledo (2008); Beijing (2010); the New Forest, home of the Wessex Institute (2012) and, again in Rome in 2014. The papers presented at this conference aim to update the use of advanced systems, promoting their general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. With the conference attracting a variety of specialists, including railway engineers, designers of advanced train control systems and computer specialists, the book particularly emphasises the use of computer systems in advanced railway engineering. Topics include but are not restricted to: Advanced train control Operations quality; Risk management; Planning and policy; Energy supply and consumption;

Communications and signalling; Operational planning; Interface management; Systems integration; Maglev; High speed technology; Interoperability; Passenger flow management; Computer simulations and Driverless and automatic train operation.

Fundamentals of Railway Design May 06 2024

This textbook examines key railway engineering topics useful for railway design and control.

Conventional railways are considered together with high-speed railways, tramways, metros, maglev and hyperloop systems, people movers, monorails and rack railways. Every system of transport is described in its basic technical characteristics, especially in terms of transportation system capacity, alignment design criteria and construction costs. It is an introductory book to specific topics of the railway engineering field, and thus, the mathematical treatment is purposely brief and simplified. The book is an ideal learning resource for students of civil engineering, as

well as a valuable reference for practicing engineers involved with railway designs.

Design of Modern Steel Railway Bridges Jan 10 2022 Perhaps the first book on this topic in more than 50 years, Design of Modern Steel Railway Bridges focuses not only on new steel superstructures but also outlines principles and methods that are useful for the maintenance and rehabilitation of existing steel railway bridges. It complements the recommended practices of the American Railway Engineering and Maintenance-of-way Association (AREMA), in particular Chapter 15-Steel Structures in AREMA's Manual for Railway Engineering (MRE). The book has been carefully designed to remain valid through many editions of the MRE. After covering the basics, the author examines the methods for analysis and design of modern steel railway bridges. He details the history of steel railway bridges in the development of transportation systems, discusses modern materials, and presents an extensive treatment

of railway bridge loads and moving load analysis. He then outlines the design of steel structural members and connections in accordance with AREMA recommended practice, demonstrating the concepts with worked examples. Topics include: A history of iron and steel railway bridges Engineering properties of structural steel typically used in modern steel railway bridge design and fabrication Planning and preliminary design Loads and forces on railway superstructures Criteria for the maximum effects from moving loads and their use in developing design live loads Design of axial and flexural members Combinations of forces on steel railway superstructures Copiously illustrated with more than 300 figures and charts, the book presents a clear picture of the importance of railway bridges in the national transportation system. A practical reference and learning tool, it provides a fundamental understanding of AREMA recommended practice that enables more effective design.

MODEL RAILWAY LAYOUT, DESIGN AND CONSTRUCTION TECHNIQUES Jul 28 2023

Layout building is perhaps the most exciting, rewarding and challenging aspect of creating a model railway. Making the right design decisions and choosing good construction techniques are vital to ensure success. This book takes you through basic baseboard construction, shelf layout themes and how to link multi-deck designs together, enabling you to make the most of a given space. With different concepts covered, from simple portable layouts to helix construction techniques, Nigel Burkin mixes the best of British layouts with those used routinely overseas and shows you how you too can achieve success and satisfaction in executing your layout design. Topics covered included: Designing for comfort; How to use space efficiently; Practical construction techniques from L-Girder to box frame baseboards; Sub track bed construction, track laying and wiring; Fine tuning the layout for smooth operations.

How to Design and Build Your Garden Railroad

Jan 02 2024 Increase your knowledge and skills with tips for designing, planning, and installing a layout; landscaping with natural materials; adding drama with structures, bridges, and trestles; and designing and installing water features.

The Design of Railway Location Oct 31 2023

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original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

The Design of Railway Location Apr 05 2024
Analysis and Design of Railway Bridges Mar 12 2022

Analysis and Design of Railway Bridges brings together the analytical tools and design methods necessary to accurately interpret the complex design requirements in the selection process and construction of robust railway bridges. When designing railway bridges, design engineers must face a number of unique structural challenges such as: dead load of the structure, live loads from the carried, frequency of traffic, and dynamic components of the traffic such as impact, centrifugal, lateral, and longitudinal forces. This means the use of complex modeling tools for the selection of proper design criteria. This reference provides a clear and rigorous exposition of the various

codes which govern design including: American Association of State Highway and Transportation Officials, American Railroad Engineering and Maintenance-of-Way Association, Federal Highway Administration and the Eurocode for dynamic factor, dynamic loading and load combinations, bridge parameters, modelling of excitation and dynamic behaviour, and verification for fatigue. Explains codes including: American Association of State Highway and Transportation Officials, American Railroad Engineering and Maintenance-of-Way Association, Federal Highway Administration, and the Eurocode Addresses the unique aspects of railway bridge modeling such as: bridge and train modeling techniques, substructure details, structural steel details, prestressed concrete details, and bridge railing and approach rail details Includes design and analysis methods and calculations as well as applications and solved examples Provides the analytical tools and design methods necessary to interpret

complex design requirements
Design and Simulation of Heavy Haul Locomotives and Trains Aug 05 2021 With the increasing demands for safer freight trains operating with higher speed and higher loads, it is necessary to implement methods for controlling longer, heavier trains. This requires a full understanding of the factors that affect their dynamic performance. Simulation techniques allow proposed innovations to be optimised before introducing them into the operational railway environment. Coverage is given to the various types of locomotives used with heavy haul freight trains, along with the various possible configurations of those trains. This book serves as an introductory text for college students, and as a reference for engineers practicing in heavy haul rail network design,
[Railway Estimates, Design, Quantities and Costs](#)
Sep 29 2023
Planning, Designing and Making Railway

Layouts in Small Spaces Apr 12 2022 If you want to build a model railway but feel constricted and frustrated because you only have a very limited amount of space available, then this is the book for you. The author demonstrates that a railway modeller need never be "stuck for space," and shows the reader how to design and construct a rewarding layout in even the smallest of spaces. He emphasizes that once you have found a home for your layout, be it in a garden shed, a spare room, a bookcase or even the top of an ironing board, the same guiding principles apply. These are all fully explained in a very practical way and include the basic layout shapes, the importance of scale, standard and narrow gauges, fiddle yards, train length, curves and turnouts as well as track design elements such as head shunts, kickback sidings and run-round loops. There are individual chapters on: potential spaces design principles basic layout shapes the art of compromise levels, layers and shelves planning

your layout baseboards classic designs and micro-layouts.

Contact Lines for Electric Railways Jul 04 2021 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.

Building a Model Railway Sep 05 2021

British Railway Track Feb 28 2021

Designing and Building Fiddle Yards Jun 02

2021 This invaluable, well-illustrated book is essential reading for all those railway modellers who are considering building a fiddle yard. The

fiddle yard is a train storage area for locomotives and rolling stock that often remains out of view. For the modeller, it represents the 'rest of the railway network' and it is essential for layouts as it is somewhere for trains to 'come from' and somewhere for trains to 'go to'. This fascinating book defines what a fiddle yard is in terms of operational variety, storage and swapping trains. It demonstrates how a fiddle yard can be integrated into a model railway layout. It covers track-only fiddle yards using a single track, ladders of multiple tracks and reversing loops and considers design issues for oval and terminus layouts as well as combination fiddle yards and the importance of train length and baseboards. There are four detailed projects for the reader to build, each one providing a different fiddle yard solution. If you have ever wondered what fiddle yards are all about and whether your layout needs one, then this is the book for you. Well illustrated with 141 colour photographs and 59 diagrams.

Model Railway Layout, Construction and Design

Techniques Jan 22 2023 Layout building is perhaps the most exciting, rewarding and challenging aspect of creating a model railway. Making the right design decisions and choosing good construction techniques are vital to ensure success. This book takes you through basic baseboard construction, shelf layout themes and how to link multi-deck designs together, enabling you to make the most of a given space. With different concepts covered, from simple portable layouts to helix construction techniques, Nigel Burkin mixes the best of British layouts with those used routinely overseas and shows you how you too can achieve success and satisfaction in executing your layout design.

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Railway Bridges

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