

Train Station Design Guide

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.

Rapid advancements in train control and in-cab technologies provide significant opportunities for rail operators to improve efficiency and enhance their operations. New technologies often provide elegant solutions to existing problems or new capabilities for the operator. However, new technologies may also represent a significant form of risk. Thus, it is important to balance the potential for significant improvement with justifiable concern about how the technology may unpredictably change the nature of the work. If a technology is designed and implemented without considering the substantive human factors

concerns, that technology may lead to unintended consequences that can introduce safety issues and disrupt network performance. It is important to note that even a well-designed and beneficial technology may be rejected by the users who see it as a threat to their jobs, status or working conditions. This book discusses the issues surrounding rail technology and introduces a 'toolkit' of human factors evaluation methods. The toolkit provides a practical and operationally focused set of methods that can be used by managers considering investing in technology, staff charged with implementing a technology, and consultants engaged to assist with the design and evaluation process. This toolkit can help to ensure that new rail technologies are thoughtfully designed, effectively implemented, and well received by users so that the significant investment associated with developing rail technologies is not wasted.

This book presents 57 peer-reviewed papers from the 12th Conference on Traffic and Granular Flow (TGF) held in Washington, DC, in July 2017. It offers a unique synthesis of the latest scientific findings made by researchers from different countries, institutions and disciplines. The research fields covered range from physics, computer science and engineering and they may be all grouped under the topic of "Traffic and Granular Flow". The main theme of the Conference was: "From Molecular Interactions to Internet of Things and Smart Cities: The Role of

Technology in the Understanding and the Evolution of Particle Dynamics".
Everyday Architecture of the Mid-Atlantic gives proof to the insights architecture offers into who we are culturally as a community, a region, and a nation.

A classic reference book on user interface design and graphic design for web sites, updated to reflect a rapidly changing market Consistently praised as the best volume on classic elements of web site design, Web Style Guide has sold many thousands of copies and has been published around the world. This new revised edition confirms Web Style Guide as the go-to authority in a rapidly changing market. As web designers move from building sites from scratch to using content management and aggregation tools, the book's focus shifts away from code samples and toward best practices, especially those involving mobile experience, social media, and accessibility. An ideal reference for web site designers in corporations, government, nonprofit organizations, and academic institutions, the book explains established design principles and covers all aspects of web design--from planning to production to maintenance. The guide also shows how these principles apply in web design projects whose primary concerns are information design, interface design, and efficient search and navigation.

City Design describes the history and current practice of the four most widely

accepted approaches to city design: the Modernist city of towers and highways that, beginning in the 1920s, has come to dominate urban development worldwide but is criticized as mechanical and soul-less; the Traditional organization of cities as streets and public places, scorned by the modernists, but being revived today for its human scale; Green city design, whose history can be traced back thousands of years in Asia, but is becoming increasingly important everywhere as sustainability and the preservation of the planet are recognized as basic issues, and finally Systems city design, which includes infrastructure and development regulation but also includes computer aided techniques which give designers new tools for managing the complexity of cities. This new, revised edition of *City Design* includes a larger format and improved interior design allowing for better image quality. The author has also included wider global coverage and context with more international examples throughout, as well as new coverage on designing for informal settlements and new research conclusions about the immediacy of sea level rise and other climate change issues that affect cities, which sharpen the need for design measures discussed in the book. Authoritative yet accessible, *City Design* covers complicated issues of theory and practice, and its approach is objective and inclusive. This is a comprehensive text on city design ideal for planners, landscape architects, urban

designers and those who want to understand how to improve cities.

The rail human factors/ergonomics community has grown quickly and extensively, and there is much increased recognition of the vital importance of ergonomics/human factors by rail infrastructure owners, rail operating companies, system developers, regulators and national and trans-national government. This book, the fourth on rail human factors, is

People can be excluded from freedom and the good things in life by age, disability, poverty, unfair discrimination, crime or the fear of crime, and arrogant and unresponsive governments. This practical reference deals with all of these factors, and shows the links between them. In addition to several hundred shorter notes it includes over a thousand major entries, each of which comprises: a summary of relevant facts, incisive commentary to help readers cut through the fog of jargon and propaganda that confuses many of these issues and websites where the latest information may be found. It concludes with a detailed bibliography of around 500 useful references. The work will be found useful by professionals and managers in all walks of life; by central and local government officials and representatives, and by students in the social sciences. It devotes particular attention to the all-important Disability Discrimination Act, and numerous detailed entries, accompanied in many cases by elegant diagrams,

suggest to architects and other designers, facilities managers, and personnel managers how the requirements of the Act may be met.

Publisher Description

The Rough Guide to Germany is the ultimate travel guide with clear maps and detailed coverage of all the best attractions Germany has to offer. Discover the dynamic regions of Germany from the lively nightlife in Berlin, magnificent Baroque gardens in Northern Germany, medieval castles and historical towns, to the flavours of German cuisine. Packed with detailed, practical advice on what to see and do in Germany this guide provides reliable, up-to-date descriptions of the best hotels in Germany, German bars, recommended restaurants in Germany, and tips on the best shopping and festivals in Germany for all budgets. Featuring detailed coverage on a full range of attractions; from the spas of Baden-Baden and the galleries of Dresden, to boat trips in Hamburg and the jazz clubs of Munich, you'll find expert tips on exploring Germany's amazing attractions with an authoritative background on Germany's rich culture and history. Explore all corners of Germany with the clearest maps of any guide and practical German language tips. Make the most of your holiday with The Rough Guide to Germany. The Rough Guide to Canada is the ultimate guide to this vast and varied land. Now in full colour throughout, this travel guide features clear maps, suggested

itineraries and regional highlights. With plenty of recommendations for hotels, restaurants, cafés and bars, from Toronto and Montréal to Vancouver, and from the east coast to the far north, you'll discover all the best this country has to offer. The guide is packed full of practical advice on exploring Canada's great outdoors, from hiking or skiing in the Rockies to canoeing through British Columbia's lakes, and from whale watching to looking out for grizzly bears. Whether you're camping in one of the many beautiful national parks, heli-skiing in the mountains or going in search of the northern lights, this book will give you all the practical advice you need for an amazing adventure. Make the most of your time with *The Rough Guide to Canada*. Now available in ePub format.

This book constitutes the refereed proceedings of the 12th International Conference on Integrated Formal Methods, IFM 2016, held in Reykjavik, Iceland, in June 2016. The 33 papers presented in this volume were carefully reviewed and selected from 99 submissions. They were organized in topical sections named: invited contributions; program verification; probabilistic systems; concurrency; safety and liveness; model learning; SAT and SMT solving; testing; theorem proving and constraint satisfaction; case studies.

"The Understanding by Design Guide to Creating High-Quality Units is targeted to individuals and groups interested in improving their skills in designing units of study based on the

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Understanding by Design (UbD) framework. This guide introduces UbD unit design and directs readers through the process. It is organized around a set of modules that move from basic ideas (e.g., the three stages of "backward design") to more complicated elements of unit design (e.g., authentic performance tasks)."--publisher website.

What's the difference between a tile and a plate? Why isn't it a good idea to stack bricks in columns to make a wall? How do you build a LEGO mosaic or build at different scales? You'll find the answers to these and other questions in *The Unofficial LEGO Builder's Guide*. Now in full color, this brand-new edition of a well-loved favorite will show you how to:—Construct models that won't fall apart —Choose the right pieces and substitute when needed —Build to micro, jumbo, and miniland scale —Make playable board games out of LEGO pieces —Create photo mosaics and curved sculptures —Build a miniature space shuttle, a minifig-sized train station, and more Of course, the real fun of LEGO building lies in creating your own models—from choosing the subject to clicking that final brick into place. Learn how in *The Unofficial LEGO Builder's Guide*. Includes the Brickopedia, a visual dictionary of nearly 300 of the most commonly used LEGO elements!

The interchange hub is the gateway to the city, and is a critical element in developing a sustainable and efficient public transport system. This publication presents ideas for improving interchanges by enhancing the quality of the journey experience for passengers. It draws upon international best practice and explains how ease and speed of mode transfers, coupled with the availability of amenities and user facilities, can make a journey more enjoyable. The lessons and innovations presented here may be used for designing the next generation of interchange hubs in the People's Republic of China.

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Inclusive Design Guidelines for HCICRC Press

The elderly population is growing and disabilities tend to increase with age. Professionals in the fields of human-computer interaction (HCI) are becoming increasingly aware of the needs of the elderly and people with disabilities. They also need to ensure that systems are designed for all, with specific consideration of these groups, not only computing systems but also other assistive and adaptive technologies such as information services and the use of smart cards, assistive robotics, systems for travellers, and home and environmental control systems. This book will help designers world-wide find relevant guidelines for the design of human-computer interaction and ensure that systems are designed for all, with specific consideration of people who are elderly and people with disabilities. Including reports from the International Federation of Information Processing's Working Group on Human-Computer Interaction (HCI) and Disability. The book will be the first compendium of guidelines.

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.

The Rough Guide to Beijing is the ultimate travel guide to China's remarkable capital

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city. From the majestic Forbidden City and maze-like hutong alleys to gorgeous lake-filled parks and the exquisite Summer Palace, this vibrant book - packed full of stunning photography and clear, colour-coded maps - reveals the city's best sights and attractions. And if you fancy taking a trip outside of Beijing, you'll be pointed in the right direction: incredible treks around the Great Wall, ancient villages, imperial hunting parks and fascinating, offbeat museums are all part of the mix. Comprehensive sections detail the very best places to sleep, eat, drink, shop and unwind: check out our author picks and "Beijing's Best" boxes, selecting atmospheric courtyard hotels, stylish bars, edgy art galleries, lively antiques markets, and much more. Expert reviews on film, literature and live music create a rounded and exciting picture of modern Beijing. However long you're staying, and whatever your budget, *The Rough Guide to Beijing* has you covered.

The 1995 National Conference on Light Rail Transit (LRT), "Building on Success--Learning from Experience", emphasizes the lessons resulting from the maturing of North American LRT systems. The conference adds to the growing body of knowledge and real-world experiences with modern LRT applications. Volume 1, contains 36 conference papers, organized in four parts. Volume 2, contains both conference papers and associated papers presented at the 1996 Annual Meeting of the Transportation Research Board in Washington, D.C.

Herein lie the answers to crime and disorder. So many people become dispirited,

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fatalistic or angry about crime instead of seeing crime problems, like business setbacks, as challenges or even opportunities. This book sets out a clear, systematic and demonstrably successful strategy for reducing the temptations and opportunities for crime. You cannot change the travelling public or the communities which public transport serves, but you can change the immediate circumstances and surroundings that you present to people, you can re-think and reinvigorate your service offering, you can recruit help from other agencies, from staff and even those who ride the system, and you can make the transition from being reactive to being ahead of the game. The theory is backed up by concrete examples of how and why and where smart-thinking has worked before to outflank crime-this is not just off-the-shelf self-help philosophy but a compendium of real-world best practice. What's more, you can often make money, or at least save a lot of money, by doing the right thing, and this book tells you how. Nick Ross, BBC Crimewatch UK, Chairman, UCL Jill Dando Institute of Crime Science Advisory Board

Historic listed buildings continue to be enjoyed in the UK as places of work, education, entertainment, worship and more. However, in order to retain and enhance their value to society, they must function inclusively and provide easier access for disabled visitors. Inclusive Design for Historic Buildings explores how this challenging ambition can be reconciled with the long-standing objectives of building conservation. Experienced Access Consultant, David Bonnett, clearly sets out the qualifying elements for

inclusivity and explores the architectural methods available, identifying five key typologies. Over twenty-five case studies are examined in depth, each illustrating a successful solution. Topics covered include the history of inclusive legislation; access auditing; working on-site and on-plan; consultation with disabled clients; creative problem-solving skills and, finally, social dynamics of the future.

Politics and culture are at once semi-autonomous and intertwined. Nowhere is this more revealingly illustrated than in urban design, a field that encompasses architecture and social life, traditions and modernization. Here aesthetic goals and political intentions meet, sometimes in collaboration, sometimes in conflict. Here the formal qualities of art confront the complexities of history. When urban design policies are implemented, they reveal underlying aesthetic, cultural, and political dilemmas with startling clarity. Gwendolyn Wright focuses on three French colonies—Indochina, Morocco, and Madagascar—that were the most discussed, most often photographed, and most admired showpieces of the French empire in the early twentieth century. She explores how urban policy and design fit into the French colonial policy of "association," a strategy that accepted, even encouraged, cultural differences while it promoted modern urban improvements that would foster economic development for Western investors. Wright shows how these colonial cities evolved, tracing the distinctive nature of each locale under French imperialism. She also relates these cities to the larger category of French architecture and urbanism, showing how consistently the French

tried to resolve certain stylistic and policy problems they faced at home and abroad. With the advice of architects and sociologists, art historians and geographers, colonial administrators sought to exert greater control over such matters as family life and working conditions, industrial growth and cultural memory. The issues Wright confronts—the potent implications of traditional norms, cultural continuity, modernization, and radical urban experiments—still challenge us today.

There are over 10 million people in Great Britain with a disability and the Government is committed to providing transport for all. Improving the accessibility of railway stations as well as their services will encourage more disabled people to use the railway network and to do so more regularly. The purpose of this Code of Practice is to assist those operating passenger trains and stations in making railway travel easier for disabled passengers. It identifies standards relevant for all passenger train and station operators in Great Britain that licensed operators must follow whenever they install, renew, or replace infrastructure or facilities. The Code also provides advice and recommendations of good practice that all operators can implement in order to provide greater opportunity to travel for disabled people using the railways. Updates have been made to this version to more accurately convey the British Standards and to reflect recent changes in Guidance

Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half

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of the entire book has now been updated since 2015 Over 100,000 copies sold to successive generations of architects and designers This book belongs in every design office. The Metric Handbook is the major handbook of planning and design data for architects and architecture students. Covering basic design data for all the major building types it is the ideal starting point for any project. For each building type, the book gives the basic design requirements and all the principal dimensional data, and succinct guidance on how to use the information and what regulations the designer needs to be aware of. As well as buildings, the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook is the unique reference for solving everyday planning problems.

The Rough Guide to Europe on a Budget has all you need to know for an out-of-this-world trip that won't affect your credit rating. Leave financial woes behind and get to grips with every corner of the continent, from awe-inspiring Stonehenge to the jaw-dropping Sistine Chapel, blissful beaches on Croatia's Brac and cool beers in Budapest's ruin pubs. Handy itineraries will help you decide your route, clear, colour-coded maps let you plan your days and gorgeous photos will have you rearing to go. Combined with in-depth descriptions of all the key sights and

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painstakingly researched recommendations for the best hostels, hotels, campsites, cafés, restaurants, bars and clubs, The Rough Guide to Europe on a Budget reveals the continent in all its glory, without breaking the bank. And if you do feel like splashing out occasionally, "treat yourself" boxes offer inspiration - take a dip in the rooftop pool at Bath's Thermae Spa or track down Wroclaw's most mouthwatering pierogi, for example. Make the most of your European adventure with The Rough Guide to Europe on a Budget that includes countries like Albania, Austria, Belgium & Luxembourg, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Montenegro, Morocco, The Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and Ukraine.

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