

DESIGN GUIDELINES FOR PUBLIC TRANSPORT FACILITIES

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ABSTRACT

1. BACKGROUND

The Design Guidelines For Public Transport Facilities project forms part of the Public Transport Planning, Design and Implementation Programme of the City of Cape Town. This programme is intended to form the basis of the a approach and aimed ultimately to effect the fundamental restructuring of public transport networks, services and facilities (the Mobility Strategy). This strategy was focused on the transformation and restructuring of public transport in Cape Town, with particular emphasis on:

- Placing public transport, people and quality of life first
- Integrating of all modes of public transport – rail, bus, mini-bus taxis, non-motorised transport (NMT) and not excluding cars, freight and business
- Pursuing sustainable transport through investment in low cost forms of mobility

The Design Guidelines for Public Transport Facilities project has set the following objectives:

- Develop a practical guide for the process of designing facilities;
- Establishing an approach towards public transport interchange or facility design which considers it in its total urban context;
- Take into account the requirements of recapitalisation vehicles;
- Learn from the performance of recently constructed facilities, to build on positive, and avoid negative experiences; and
- Focus on the needs of pedestrians as the basic functioning component at public transport stops and interchanges.

2. THE NATURE OF INTERCHANGE

2.1 The urban meaning of interchange

While interchanges play an important functional role in transportation management, they are also very important elements of urban structure and need to be used structurally to improve the performance of the city.

From a design perspective, they have a number of characteristics which need to inform their conceptualisation:

- They are **people places**: they are significant places of gathering and the generation of pedestrian flows.
- They are **places of waiting**: comfort is therefore a central design issue.

Design Guidelines For Public Transport Facilities Upspace

Ying Liu



Design Guidelines For Public Transport Facilities Uppspace:

Architectural Graphic Standards American Institute of Architects, Keith E. Hedges, 2017-03-29 ARCHITECTURAL GRAPHIC STANDARDS THE LANDMARK UPDATE OF THE MOST RECOGNIZED STUDENT RESOURCE IN ARCHITECTURE The Student Edition of the iconic Architectural Graphic Standards has been a rite of passage for architecture building and engineering students for more than eighty years Thoughtfully distilled from the Twelfth Edition of Architectural Graphic Standards and reorganized to meet the specific needs of today's students this fully updated Student Edition shows you how to take a design idea through the entire planning and documentation process This potent resource stays with you through your academic experience and into your first years as a professional with thousands of useful illustrations and hundreds of architectural elements conveniently placed at your fingertips Presented in a format closely resembling an architect's actual workflow this Twelfth Edition student handbook features Completely new material on resiliency in buildings A versatile treatment written for the design studio setting and aligned with the most current curricular trends including new and updated coverage on topics related to sustainability digital fabrication and building information modeling BIM A proven pedagogy that saves students time and ensures young professionals avoid the most common pitfalls Develop a state of the art mastery of design best practices with Architectural Graphic Standards Twelfth Edition Student Edition INTELLIGENT TRANSPORT SYSTEMS PRADIP KUMAR SARKAR, AMIT KUMAR JAIN, 2017-11-15 Over the time Intelligent Transport System ITS has become important for any country not only for traffic congestion management but also for modern infrastructure and safety Since there is a dearth of literature on this subject this book attempts to fill the gap and provides a holistic work on ITS encompassing theory examples and case studies on various facets in both road and railway sectors The basic principles of various technologies used for ITS have been explained in such a manner that students from non technical background can also comprehend them with ease It also discusses the emerging technologies such as autonomous vehicles electric vehicles cooperative vehicle highway system automated highway systems 5G mobile technology etc Considering the need of huge funds required for ITS implementation the text provides various funding options available Conclusively it is a unique book that contains all aspects of ITS which a student of engineering is expected to know The book is intended as a text for postgraduate students of transportation engineering and as a reference book for professionals such as transport planners town planners traffic engineers transit operators and consultants Key Features ITS architecture with a number of case studies based on real life situation Concept of smart city importance of advanced transport system and applications of ITS technologies in smart cities ITS in Rail sector intelligent trains train control systems and intelligent train maintenance practices Chapter end questions for practice and bibliography **Architectural Graphic Standards** The American Institute of Architects, 2007-03-30 Since 1932 the ten editions of Architectural Graphic Standards have been referred to as the architect's bible From site excavation to structures to roofs this book is the first place to look when an architect is

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Aesthetics in Transportation Lajos Héder, 1980 This is a guide for transportation planners in creating attractive environments for people using transportation facilities and for those in the surrounding communities The book which is based on 45 case studies and is illustrated by several photographs begins with a formal discussion on art and then proceeds to facility design potential impacts and improved procedures A comprehensive section on sites and opportunities discusses topics such as cityscape gateways passageways streets plazas and the renovation of older works A number of procedures for managing arts programs are discussed The section on highways provides design policy advice for planners on route selection sign control roadside development and historic presentation Other sections of the book discuss buses and streetcars and rapid transit Aesthetic impacts involved in integrating transportation facilities with their surrounding communities are discussed References are provided to funding sources and 141 publications **Aesthetics in Transportation** ,1980

Highway Safety Literature ,1969 **Highway Safety Literature Annual Cumulation ...** ,1969 One of a 5 volume set each covering a broad subject which cumulates annually all citations that appeared during the year in Highway safety

literature In present volume annotated entries arranged under emergency services injuries investigations and records and locations No index **Determining Pavement Skid-resistance Requirements at Intersections and Braking Sites**

Eugene Farber, Gene Farber, 1974 The determination of skid resistance requirements for any given set of roadway and traffic conditions is reported The study focuses on wet pavement skidding accidents at intersections and curves The feasibility of implementing these procedures was demonstrated in the field A simplified version of the procedures was also developed The three steps involved in the procedure for determination of skid resistance requirements are outlined **Planning**

Australia's Healthy Built Environments Jennifer Kent, Susan Thompson, 2019-03-18 Planning Australia's Healthy Built Environments shines a quintessentially Australian light on the links between land use planning and human health A burgeoning body of empirical research demonstrates the ways urban structure and governance influences human health and Australia is playing a pivotal role in developing understandings of the relationships between health and the built environment This book takes a retrospective look at many of the challenges faced in pushing the healthy built environment agenda forward It provides a clear and theoretically sound framework to inform this work into the future With an emphasis on context and the pursuit of equity Jennifer L Kent and Susan Thompson supply specific ways to better incorporate idiosyncrasies of place and culture into urban planning interventions for health promotion By chronicling the ways health and the built environment scholarship and practice can work together Planning Australia's Healthy Built Environments enters into new theoretical and practical debates in this critically important area of research This book will resonate with both health and built environment scholars and practitioners working to create sustainable and health supportive urban environments *Building Type Basics for Transit Facilities* Kenneth W. Griffin, Stephen A. Kliment, 2004-05-04 Publisher

Description **Report**, 1974 *Access for Everyone* Arvid E. Osterberg, 2010 Facilities Manager's Desk Reference Jane M. Wiggins, 2014-02-04 An invaluable source of highly relevant practical information on the all the principal FM services written for the practicing facilities manager in an easily readable concise format To help the facilities manager meet the needs of their organisation the Facilities Manager's Desk Reference provides the facilities manager with an invaluable source of highly relevant practical information on the all the principal FM services as well as information on legal compliance issues the development of strategic policies and tactical best practice information Fully updated over the first edition and presented in an easily readable concise format with a clear practitioner perspective the book covers both hard and soft facilities management issues It will be a first point of reference for all busy facilities managers saving them time by providing access to the information needed to ensure the safe effective and efficient running of any facilities function Fully updated over the 1st edition it contains all the essential data covering the principal FM services Highly practical aimed at the busy FM practitioner Saves time by bringing together essential useful and practical information Benefits students whose courses do not prepare them for the practicalities of professional practice Recommendations for Accessibility Guidelines

Architectural and Transportation Barriers Compliance Board,1994 *Bus Use of Highways* Herbert S. Levinson,Crosby L. Adams,William F. Hoey,1975 Over 200 bus priority treatments in the U S and abroad were reviewed in the preparation of these guidelines for efficient bus utilization of urban highway facilities This report which complements an intensive report on the state of the art of bus use of highways presents the principal findings of 10 study tasks and contains significant bus design parameters concept and criteria planning and design guidelines for principal bus priority measures and measures of effectiveness associated with bus highway facilities The dimensions of bus use are reviewed the types of priority treatments are categorized relating to freeways arterials and terminals characteristics of successful treatments are described and the policy perspective is discussed *Process Architecture in Biomanufacturing Facility Design* Jeffery Odum,Michael C. Flickinger,2018-01-26 Essential information for architects designers engineers equipment suppliers and other professionals who are working in or entering the biopharmaceutical manufacturing field Biomanufacturing facilities that are designed and built today are radically different than in the past The vital information and knowledge needed to design and construct these increasingly sophisticated biopharmaceutical manufacturing facilities is difficult to find in published literature and it s rarely taught in architecture or design schools This is the first book for architects and designers that fills this void Process Architecture in Biomanufacturing Facility Design provides information on design principles of biopharmaceutical manufacturing facilities that support emerging innovative processes and technologies use state of the art equipment are energy efficient and sustainable and meet regulatory requirements Relying on their many years of hands on design and operations experience the authors emphasize concepts and practical approaches toward design construction and operation of biomanufacturing facilities including product process facility relationships closed systems and single use equipment aseptic manufacturing considerations design of biocontainment facility and process based laboratory and sustainability considerations as well as an outlook on the facility of the future Provides guidelines for meeting licensing and regulatory requirements for biomanufacturing facilities in the U S A and WHO especially in emerging global markets in India China Latin America and the Asia Pacific regions Focuses on innovative design and equipment to speed construction and time to market increase energy efficiency and reduce footprint construction and operational costs as well as the financial risks associated with construction of a new facility prior to the approval of the manufactured products by regulatory agencies Includes many diagrams that clarify the design approach Process Architecture in Biomanufacturing Facility Design is an ideal text for professionals involved in the design of facilities for manufacturing of biopharmaceuticals and vaccines biotechnology and life science industry including architects and designers of industrial facilities construction equipment vendors and mechanical engineers It is also recommended for university instructors advanced undergraduates and graduate students in architecture industrial engineering mechanical engineering industrial design and industrial interior design ADA in Details Janis Kent,2023-08-08 ADA IN DETAILS Comprehensive visual interpretation of the ADA Standards for accessible

design expanded with 50% more content and comparisons with two additional codes and standards ADA in Details Second Edition provides a visual interpretation of the Americans with Disabilities Act Standards ADAS A comprehensive guide to incorporating accessibility thru bullet points and visual details the book is a convenient go to reference of pertinent scoping technical requirements and sourcing information It highlights typical requirements for new projects and alterations and also covers specialty uses such as assembly areas kitchens site elements hospitality retail restaurants and recreational facilities This revised edition now integrates the 2010 ADA Standards with the 2021 International Building Code IBC the 2022 California Building Code CBC and the 2017 ICC A117.1 Standard for Accessible and Usable Buildings and Facilities The book uses color to differentiate between the different standards and codes and now includes photos for real world examples ADA in Details Second Edition includes Color coded comparisons between the ADA IBC CBC and ICC A117.1 which help in understanding how to navigate thru the different requirements in accessibility Visual details and bullet point specifications for both newly constructed and existing facilities are color coded to identify which requirements apply Solutions for accessible routes site features architectural elements restrooms electric vehicle charging stations and more including public multi family housing dwelling units Discussions and notes on various topics to be considered in new and existing facilities due to how building codes have evolved from preceding cycles Clear explanation and illustrations that synthesize various federal regulations including limited portions of ABA and HUD's Deeming Notice among other regulations Architects and designers plan checkers and inspectors along with facility managers and contractors as well as everyone else involved in the built environment can turn to ADA in Details as an authoritative resource to understand accessibility compliance for places of public accommodation commercial facilities and public facilities

Accessible Design Review Guide Robert R. Grist, 1996 A new and innovative approach to both designing and analyzing proposed and existing facilities for ADAAG compliance With its emphasis on physical accessibility the Americans with Disabilities Act Accessibility Guidelines ADAAG have far reaching implications for the design or renovation of virtually all public use buildings and sites in the United States Yet there has been little guidance on how to design and review the drawings and specifications of an existing or proposed facility to assess its ADAAG compliance This invaluable reference provides such guidance at last for architects interior designers landscape architects engineers builders planners facilities managers specification writers construction code officials teachers and students as well as individuals concerned with access issues The authors present the ADAAG in an easily understandable format grouping ADAAG criteria into detailed checklists for specific interior and exterior spaces such as offices classrooms retail shops restaurants restrooms and parking garages This sensible approach makes the review process of any room building or site highly manageable For additional convenience the presentation parallels the design process from schematic design through construction documents including detail schedule and specification review Complete with review forms checklists graphics and other information necessary to ensure ADAAG compliance this thorough guide will prove invaluable

to everyone involved with the design or retrofit of accessible buildings and sites *Barrier-free public transport in Germany*, 2003 *Automatic for the City* Riccardo Bobisse, Andrea Andrea Pavia, 2019-08-20 How will automated vehicles change our lives Where are the opportunities and challenges Future streets require planning today This timely book envisions ways in which changes to urban mobility and technology will transform city streetscapes and importantly how cities can prepare It is a reflection on the relationship between new technologies and urbanism as well as an agile urban design manual with pictures illustrating potential spatial arrangements enabled by the new technologies Two case studies in the central urban cores of London and Los Angeles will be presented to show how neighborhoods can be redesigned for the better and how to apply good urban design principles across towns and cities worldwide

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