

Transportation systems in buildings

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Cibse Guide Vertical Transportation

Yit Lin Chew



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Elevator Traffic Handbook Gina Barney, Lutfi Al-Sharif, 2015-08-27 This second edition of this well respected book covers all aspects of the traffic design and control of vertical transportation systems in buildings making it an essential reference for vertical transportation engineers other members of the design team and researchers The book introduces the basic principles of circulation outlines traffic design methods and examines and analyses traffic control using worked examples and case studies to illustrate key points The latest analysis techniques are set out and the book is up to date with current technology A unique and well established book this much needed new edition features extensive updates to technology and practice drawing on the latest international research

People Flow in Buildings Marja-Liisa Siikonen, 2021-10-04 Discover how to measure control model and plan people flow within modern buildings with this one stop resource from a leading professional People Flow in Buildings delivers a comprehensive and insightful description of people flow analysis with software based tools The book offers readers an up to date overview of mathematical optimization methods used in control systems and transportation planning methods used to manage vertical and horizontal transportation The text offers a starting point for selecting the optimal transportation equipment for new buildings and those being modernized It provides insight into making passenger journeys pleasant and smooth while providing readers with an examination of how modern trends in building usage like increasingly tall buildings and COVID 19 effect people flow planning in buildings People Flow in Buildings clearly defines the terms and symbols it includes and then moves on to deal with the measurement control modelling and planning of people flow within buildings of all kinds Each chapter contains an introduction describing its contents and the background of the subject Included appendices describe measured passenger data and performed analyses Readers will also benefit from the inclusion of A thorough introduction to people counting methods including counting technology inside and outside buildings passenger traffic components and manual people counting An examination of the passenger arrival process in building including the Poisson arrival process and probability density function and passenger arrivals in batches A consideration of daily vertical passenger traffic profiles including two way traffic profiles and the effects of inter floor traffic An exploration of people flow solutions including stairs escalators and elevators with collective and destination group control systems as well as double deck and multicar system People flow calculation and simulation models Elevator planning with ISO simulation method Elevator planning and evacuation of tall buildings Perfect for software designers in the private sector and academia People Flow in Buildings will also earn a place in the libraries of elevator consultants manufacturers and architects who seek a one stop reference for transportation devices from a functional and design perspective

Intelligent Building Systems Albert Ting-pat So, Wai Lok Chan, 2012-12-06 Intelligent building is the future of our building industry all commercial residential industrial and institutional buildings will be designed towards the goal of intelligent buildings The most important aspect of an intelligent

building is the building systems such as electrical services heating ventilation and air conditioning systems vertical transportation systems and life safety systems which must operate intelligently and efficiently to enhance the activities of the occupants Intelligent Building Systems explains what already exists in a modern intelligent building and describes what is currently being developed by researchers to improve human comfort working efficiency and energy performance for buildings in the 21st century Intelligent Building Systems is divided into three parts The first part gives a quick review of the structure terminology layout and operating principles of most standard modern building systems The second part introduces the background material necessary to understand intelligent building systems including information on electronics technology fundamental mathematics and techniques in artificial intelligence and signal processing These first two parts are the foundation for the final part which consists of research works carried out by the authors and other researchers in the application of artificial intelligence to building systems The technologies presented will encourage readers to envision new and innovative ideas on possible future applications Intelligent Building Systems is relevant to practitioners and researchers in the area of architectural science and engineering electrical and mechanical services and intelligent buildings It may also be used as a text for advanced courses on the topic **TRANSPORTATION SYSTEMS IN BUILDINGS. DGVD2020].**

,2020 **The Vertical City** K. Al-Kodmany,2018-06-25 Each century has its own unique approach toward addressing the problem of high density and the 21st century is no exception As cities try to cope with rapid population growth adding 2.5 billion dwellers by 2050 and grapple with destructive sprawl politicians planners and architects have become increasingly interested in the vertical city paradigm Unfortunately cities all over the world are grossly unprepared for integrating tall buildings as these buildings may aggravate multidimensional sustainability challenges resulting in a vertical sprawl that could have worse consequences than horizontal sprawl By using extensive data and numerous illustrations this book provides a comprehensive guide to the successful and sustainable integration of tall buildings into cities A new crop of skyscrapers that employ passive design strategies green technologies energy saving systems and innovative renewable energy offers significant architectural improvements At the urban scale the book argues that planners must integrate tall buildings with efficient mass transit walkable neighbourhoods cycling networks vibrant mixed use activities iconic transit stations attractive plazas well landscaped streets spacious parks and engaging public art Particularly it proposes the Tall Building and Transit Oriented Development TB TOD model as one of the sustainable options for large cities going forward Building on the work of leaders in the fields of ecological and sustainable design this book will open readers eyes to a wider range of possibilities for utilizing green resilient smart and sustainable features in architecture and urban planning projects The 20 chapters offer comprehensive reading for all those interested in the planning design and construction of sustainable cities

Maintainability of Facilities Yit Lin Chew,2016-08-19 This book focuses on spearheading the integration of maintainability and green facility management right from the design stage The text introduces the concept of green

maintainability and discusses considerations to maximize the performance by achieving resource and energy efficiency while minimizing the total life cycle cost in embodied energy environmental impact and consumption of matter energy throughout the life cycle of a facility by doing it right the first time In this edition existing chapters have been brought up to date to include contemporary sustainability concerns such as sustainability design construction and materials and maintainability of green features Maintainability of Facilities is written for practitioners and students in architecture engineering building real estate construction project management facilities management quantity and building surveying Smart Cities Anuar Mohamed Kassim, Lutfi Al-Sharif, 2021-10-13 The development of smart cities is important and beneficial to a government and its citizens With the advent of the smartphone rapid and reliable communication between and among individuals and governments has become ubiquitous Everything can be connected and accessed easily with the touch of a finger Changes in mobile internet telecommunication systems allow for the advance of new urbanization using smart city development methods The evolution of technology in Industry 4.0 such as the advancement of cutting edge sensors utilizing the Internet of things IoT concept has wide applications in developing various smart systems This publication analyzes the interconnected cyber physical systems inherent in smart cities and the development methods and applications thereof **International Encyclopedia of Transportation**, 2021-05-13 In an increasingly globalised world despite reductions in costs and time transportation has become even more important as a facilitator of economic and human interaction this is reflected in technical advances in transportation systems increasing interest in how transportation interacts with society and the need to provide novel approaches to understanding its impacts This has become particularly acute with the impact that Covid 19 has had on transportation across the world at local national and international levels Encyclopedia of Transportation Seven Volume Set containing almost 600 articles brings a cross cutting and integrated approach to all aspects of transportation from a variety of interdisciplinary fields including engineering operations research economics geography and sociology in order to understand the changes taking place Emphasising the interaction between these different aspects of research it offers new solutions to modern day problems related to transportation Each of its nine sections is based around familiar themes but brings together the views of experts from different disciplinary perspectives Each section is edited by a subject expert who has commissioned articles from a range of authors representing different disciplines different parts of the world and different social perspectives The nine sections are structured around the following themes Transport Modes Freight Transport and Logistics Transport Safety and Security Transport Economics Traffic Management Transport Modelling and Data Management Transport Policy and Planning Transport Psychology Sustainability and Health Issues in Transportation Some articles provide a technical introduction to a topic whilst others provide a bridge between topics or a more future oriented view of new research areas or challenges The end result is a reference work that offers researchers and practitioners new approaches new ways of thinking and novel solutions to problems All encompassing and expertly authored

this outstanding reference work will be essential reading for all students and researchers interested in transportation and its global impact in what is a very uncertain world Provides a forward looking and integrated approach to transportation
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Building Services Journal ,2003 **Elevator Technology 5** George Charles Barney,1993

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