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This book focuses on modelling and simulation, control and optimization, signal processing, and forecasting in selected nonlinear dynamical systems, presenting both literature reviews and novel concepts. It develops analytical or numerical approaches, which are simple to use, robust, stable, flexible and universally applicable to the

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analysis of complex nonlinear dynamical systems. As such it addresses key challenges are addressed, e.g. efficient handling of time-varying dynamics, efficient design, faster numerical computations, robustness, stability and convergence of algorithms. The book provides a series of contributions discussing either the design or analysis of complex systems in sciences and engineering, and the concepts developed involve nonlinear dynamics, synchronization, optimization, machine learning, and forecasting. Both theoretical and practical aspects of diverse areas are investigated, specifically neurocomputing, transportation engineering, theoretical electrical engineering, signal processing, communications engineering, and computational intelligence. It is a valuable resource for students and researchers interested in nonlinear dynamics and synchronization with applications in selected areas.

This book elaborates the science and engineering basis for energy-efficient driving in conventional and autonomous cars. After covering the physics of energy-efficient motion in conventional, hybrid, and electric powertrains, the book chiefly focuses on the energy-saving potential of connected and automated vehicles. It reveals how being connected to other vehicles and the infrastructure enables the anticipation of upcoming driving-relevant factors, e.g. hills, curves, slow traffic, state of traffic signals, and movements of nearby vehicles. In turn, automation allows vehicles to adjust their motion more precisely in anticipation of upcoming events, and to save energy. Lastly, the energy-efficient motion of connected and automated vehicles

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could have a harmonizing effect on mixed traffic, leading to additional energy savings for neighboring vehicles. Building on classical methods of powertrain modeling, optimization, and optimal control, the book further develops the theory of energy-efficient driving. In addition, it presents numerous theoretical and applied case studies that highlight the real-world implications of the theory developed. The book is chiefly intended for undergraduate and graduate engineering students and industry practitioners with a background in mechanical, electrical, or automotive engineering, computer science or robotics.

As the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data- volume, variety, velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal.

" ... the 17th International Conference ... held ... in Pisa, Italy."--Pref.

张尊栋、郭伟伟、周慧娟、郑国荣、魏明等编著的《城市道路交通仿真技术-Vissim Synchro

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操作与应用》主要介绍了Vissim仿真软件和Synchro仿真软件的主要功能与基本操作，并通过一些示例详细介绍了这些软件在进行交通仿真过程中的基本步骤和使用方法。全书共分9章，第1到6章是Vissim操作与应用部分，包括Vissim简介、Vissim功能介绍、一个简单的例子、无信号交叉口示例、信控交叉口仿真示例、线控案例分析；第7到9章是Synchro操作与应用部分，包括Synchro简介、基本操作示例、环岛仿真示例。本书可作为普通高等学校教育交通工程专业、交通运输工程专业等道路交通领域专业的学位课程教材，也可作为城市规划、土木工程等专业的选修课教材或教学参考书。从事城市规划、交通规划、道路规划与设计、交通信号控制、交通组织管理等工作的技术人员和管理人员也可以将本书作为工具书。

民國99年至102年，交通部委託中華民國運輸學會完成四年期計畫「交通技術研發與人才培育規劃研究」。其考慮到機車行為、幾合特性，首先建立一套在號誌控制路口下，符合國內路口汽機車等候、消散、轉向的混合運行數學模式，並提供一號誌控制軟體雛形，供使用者操作。民國103至105年，交通部委託國立交通大學執行「號誌控制技術研究計畫」。旨在延續前四年期之成果，根據使用者回饋意見，作軟體介面、模式功能與演算法之新增與強化。本期研究延續前期之混合車流模式，並新增多岔路口、數個緊鄰路口及共用號誌等，改善演算法求解效率並加入溢流延滯、服務水準等相關績效指標。期能朝產品化之方向，發展一符合本土特色的號誌控制軟體

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With ever increasing trends in urban consumption and production practices, a call for action to mitigate Climate Change is often seen as a way to foster sustainable development. Considerable attention is now being paid to determine what urban sustainability would include. Today there is a pressing need to broaden our

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knowledge and apply new concepts and frameworks to development of modern cities. Building on the foregoing, this book attempts to bring together and discuss concepts, tools, frameworks and best practices to cope with the emerging challenges faced by cities today. The book will be of use to policy makers, city planners, practitioners and academics who are starting to project what modern cities would need to do in terms of energy efficiency, mobility, planning and design of habitat and infrastructure and adapting to climate change.

This book presents selected papers from the 4th Conference of the Transportation Research Group of India. It provides a comprehensive analysis of themes spanning the field of transportation encompassing economics, financial management, social equity, green technologies, operations research, big data analysis, econometrics and structural mechanics. This volume will be of interest to researchers, educators, practitioners, managers, and policy-makers world-wide.

This report serves as a comprehensive guide to traffic signal timing and documents the tasks completed in association with its development. The focus of this document is on traffic signal control principles, practices, and procedures. It describes the relationship between traffic signal timing and transportation policy and addresses maintenance and operations of traffic signals. It represents a synthesis of traffic signal timing concepts and their application and focuses on the use of detection, related timing parameters, and resulting effects to users at the intersection. It

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discusses advanced topics briefly to raise awareness related to their use and application. The purpose of the Signal Timing Manual is to provide direction and guidance to managers, supervisors, and practitioners based on sound practice to proactively and comprehensively improve signal timing. The outcome of properly training staff and proactively operating and maintaining traffic signals is signal timing that reduces congestion and fuel consumption ultimately improving our quality of life and the air we breathe. This manual provides an easy-to-use concise, practical and modular guide on signal timing. The elements of signal timing from policy and funding considerations to timing plan development, assessment, and maintenance are covered in the manual. The manual is the culmination of research into practices across North America and serves as a reference for a range of practitioners, from those involved in the day to day management, operation and maintenance of traffic signals to those that plan, design, operate and maintain these systems.

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