

Module – I (10 Hours)

History of Indian Railways, Component parts of railway track, Problems of multi gauge system, Wheel and axis arrangements, Coning of wheels, Various resistances and their evaluation, hauling capacity and tractive effort, stresses in rail, sleepers, ballast and formation. Permanent way component parts :, wear and failure in rails, Rail joints, bearing plates, anti-creep devices, check and guard rails, Ballast requirements, Specifications, Formation, Cross-section, drainage.

Module – II (10 Hours)

Geometric design : Alignment, horizontal curves, super elevation, equilibrium cant and cant deficiency, Length of transition curves, Gradients and grade compensation, vertical curves. Point and Crossing : Design of simple turn out, various types of track junction and their configurations.

Module – III (10 Hours)

Signalling and interlocking : Control of train movement and monitoring, types of signals, principles of interlocking. Air Transport Development : Airport scenario in India – Stages of development, Aircraft characteristics, airport planning, site selection, Obstruction and zoning laws, Imaginary surfaces, Approach zones and turning zones.

Module – IV (10 Hours) Runways and Taxiway design : Elements of runway, orientation and configuration, Basic runway length and corrections, Geometric elements design, Taxiway design, Main and exit taxiway, Separation clearance, Holding aprons, Typical airport layouts, Terminal building, gate position, Visual Aids and Air Traffic Control : Airport making and lighting, Airway and airport traffic control, Instrumental landing systems and Air navigation aids.

Transportation Vtu E Learning Notes

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Computational Intelligence in Machine Learning Vinit Kumar Gunjan, Amit Kumar, Jacek M. Zurada, Sri Niwas Singh, 2024-02-20 This volume comprises select proceedings of the International Conference on Computational Intelligence in Machine Learning ICCIML 2022. The contents cover latest research trends and developments in the areas of machine learning, smart cities, IoT, Artificial Intelligence, cyber physical systems, cybernetics, data science, neural network, cognition, among others. It also addresses the comprehensive nature of computational intelligence, AI, ML, and DL to emphasize its character in modelling, identification, optimization, prediction, forecasting, and control of future intelligent systems. This volume will be a useful guide to those working as researchers in academia and industry by presenting in depth fundamental research contributions from a methodological application perspective in understanding Artificial intelligence and machine learning approaches and their capabilities in solving diverse range of problems in industries and its real world applications.

Internet of Vehicles and Computer Vision Solutions for Smart City Transformations Anuj Abraham, Shitala Prasad, Ahmed Alhammadi, Thierry Lestable, Ferdaous Chaabane, 2025-02-19 This book compiles recent research endeavors at the intersection of computer vision (CV) and deep learning for Internet of Vehicles (IoV) applications which are pivotal in shaping the landscape of smart cities. These technologies play instrumental roles in enhancing various facets of urban life encompassing safety, transportation infrastructure management, and sustainability. The amalgamation of CV and deep learning within smart cities creates a powerful synergy that fosters safer, more efficient, and sustainable urban environments. By harnessing these cutting edge technologies to drive data driven decision making, cities can elevate the quality of life for their inhabitants, mitigate environmental impact, and optimize overall urban functionality. Additionally, this compilation provides in depth technical and scientific insights into various facets of artificial intelligence (AI) technologies, including forthcoming trends and innovations that are poised to transform smart cities. The book also extends its focus to other areas of smart city development. It explores the application of these technologies in the creation of smart parking solutions, discusses the role of surveillance for public safety, and examines how CV and IoV can be utilized for environmental monitoring. The book also delves into urban planning and infrastructure development, emphasizing the importance of a data driven approach. It sheds light on the social impact of smart cities and the importance of citizen engagement and discusses issues of security and privacy in the context of smart cities. The book concludes with a look at future trends and challenges in the field of smart cities. Targeted at researchers, practitioners, engineers, and scientists, this book is geared toward those engaged in the development of advanced algorithms for future forward smart city applications in computer vision, vehicular networking, communication technology, sensor devices, IoT, communication, vehicular, and on road safety, data security, and services for IoV related devices.

The Reserve Marine, 1958

National Union Catalog, 1980 Includes entries for maps and atlases

Teachers' Journal, 1963

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Bibliographic Guide to Maps and Atlases Gale Group, 2001-07 **The National Union Catalogs, 1963-** ,1964
New Serial Titles ,1981 National Union Catalog, 1981 ,1982 **Introduction to Transportation Engineering** K.
O. Anderson, University of Alberta. Department of Civil Engineering, 1986 **Course Notes** ,1951 **Emerging Concepts**
of Transportation Engineering and Their Implications for Engineering Education Harmer Elmer Davis, W. Norman
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Cook, Charles E. Barb, Leonard B. West, University of Oklahoma. School of Civil Engineering and Environmental Science, 1980
C.E. 4201 A. M. Stevens, University of New Brunswick. Department of Civil Engineering, 1971 *Course Notes,*
Techniques of Transportation Analysis Bradley T. Hargroves, Pennsylvania Transportation Institute, 1975

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