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Civil Engineering. College/Institution: CBE. Department/School/Center: School of Commerce. Program title: BA in Administrative Service Management. Program duration (in years): Three for regular and four for extension. Study Language: English. Credits and the equivalent ECTS : ECTS 187. Mode of delivery: Regular and Extension.

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### Highway Engineering I: Dept. of Civil Eng. Faculty of ...

Addis Ababa University (AAU) College of Humanities, Language Studies, Journalism and Communications (CHLSJC) held its 28th annual conference virtually from 26-27 Oct 2020. The conference incorporated presentation of research articles and analyses delivered by different scholars focused on Ethiopian languages,

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### Addis Ababa University Civil Engineering - Bwstats Ethiopia

Addis Ababa University (AAU), which was established in 1950 as the University College of Addis Ababa (UCAA), is the oldest and the largest higher learning and research institution in Ethiopia. Since its inception, the University has been the leading center in teaching-learning, research and community services. Beginning with enrollment capacity of 33 students in 1950, AAU now has 48,673 students (33,940 undergraduate, 13,000 graduate and 1733 PhD students) and 6043 staff (2,408 academics and ...

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Addis Ababa University, Addis Ababa Institute of Technology (AAiT) Samsung Building first floor, N-135. Office hours: 8:30 am - 5:30 pm EAT Monday to Friday. Tel: +251 111 2612 94. Website: <http://areri.aau.edu.et>. Facebook: African Railway Center of Excellence or. @arce.aait.aau . Mr. Anteneh Zewdu. Addis Ababa Institute of Technology (AAiT)

### MSc and PhD in Railway Engineering Scholarship ...

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Extreme Hydrology and Climate Variability: Monitoring, Modelling, Adaptation and Mitigation is a compilation of contributions by experts from around the world who discuss extreme hydrology topics, from monitoring, to modeling and management. With extreme climatic and hydrologic events becoming so frequent, this book is a critical source, adding knowledge to the science of extreme hydrology. Topics covered include hydrometeorology monitoring, climate variability and trends, hydrological variability and trends, landscape dynamics, droughts, flood processes, and extreme events management, adaptation and mitigation. Each of the book's chapters provide background and theoretical foundations followed by approaches used and results of the applied studies. This book will be highly used by water resource managers and extreme event researchers who are interested in understanding the processes and teleconnectivity of large-scale climate dynamics and extreme events, predictability, simulation and intervention measures. Presents datasets used and methods followed to support the findings included, allowing readers to follow these steps in their own research Provides variable methodological approaches, thus giving the reader multiple hydrological modeling information to use in their work Includes a variety of case studies, thus making the context of the book relatable to everyday working situations for those studying extreme hydrology Discusses extreme event management, including adaptation and mitigation

As the world moves further into urbanization, there is a greater need for construction materials to meet society's needs. As natural resources become scarce, the use of recycled materials for construction purposes has become increasingly common. Over the past decade, there has been a significant increase in the utilization of recycled materials in the construction industry. This will result in substantial advantages in structure and infrastructure construction coupled with a reduction in the construction cost, as well as improving sustainability. However, significant development limitations and many relevant considerations must be addressed when using recycled materials in construction. This book introduces innovative and alternative construction materials used in civil engineering.

Master's Thesis from the year 2013 in the subject Engineering - Civil Engineering, grade: Very Good (A), Addis Ababa University (Addis Ababa University Institute of Technology), course: Structural Engineering, language: English, abstract: This thesis focuses on the development of a FORTRAN 95 program for the structural design of the superstructure part of a concrete slab culvert. FORTRAN 95 is a programming language used in the fields of scientific, numerical, and engineering fields. In this thesis, this language has been used to develop the program for the structural design of reinforced concrete slab culvert deck. The input data for at grade and at fill slab culverts are saved on a note pad in the external file folder which constitute the material properties, geometric features and proposed diameter of reinforcement bars of the slab culvert and its deck in the folder which contains FORTRAN 95 program. The output data is written on the note pad in the external folder based on the format assigned for each output in the folder which contains the design results of slab deck thickness and area, spacing and length of main, distribution and temperature reinforcement bars. Besides Edge beam design parallel to the traffic is executed and shown in the output result by the developed program. Concrete slab culvert is an important structure used to convey trucks and pedestrian along a road corridor or in one of a range of other situations. This structure is highly constructed in highway road projects in Ethiopia. In this study, a FORTRAN program is developed for the structural design of reinforced concrete slab culvert deck according to the provisions given in AASHTO LRFD Bridge 2005 Edition. The developed program is expected to assist the structural designers and users to design the superstructure part of a reinforced concrete slab culvert deck efficiently with great accuracy. Both at grade and at fill slab deck thicknesses are computed according to the specification specified in AASHTO LRFD Bridge 2005 Edition. The reinforcement bars are also designed based on the requirements specified in the code. Within the context of this work the program is developed in four steps. The first step is to define and analyze the problem; the second step is to develop an optimal solution and designing the program, the third step is coding the program and the final step is testing and documenting the program.

This book is a guide for students, researchers, and practitioners to the latest developments in fuzzy hybrid computing in construction engineering and management. It discusses basic theory related to fuzzy logic and fuzzy hybrid computing, their application in a range of practical construction problems, and emerging and future research trends.

The book provides a comprehensive overview of the hydrology of the Nile River, especially the ecohydrological degradation and challenges the basin is facing, the impact of climate change on water availability and the transboundary water management issues. The book includes analysis and approaches that will help provide different insights into the hydrology of this complex basin, which covers 11 countries and is home to over 300 million people. The need for water-sharing agreements that reflect the current situations of riparian countries and are based on equitable water-sharing principles is stressed in many chapters. This book explores water resource availability and quality and their trends in the basin, soil erosion and watershed degradation at different scales, water and health, land use and climate change impact, transboundary issues and water management, dams, reservoirs and lakes. The link between watershed and river water quantity and quality is discussed pointing out the importance of watershed protection for better water resource management, water accessibility, institutional set-up and policy, water demand and management. The book also presents the water sharing sticking points in relation to historical treaties and the emerging water demands of the upstream riparian countries. The need for collaboration and identification of common ground to resolve the transboundary water management issues and secure a win-win is also indicated.

The Nile provides freshwater not only for domestic and industrial use, but also for irrigated agriculture, hydropower dams and the vast fisheries resource of the lakes of Central Africa. The Nile River Basin covers the whole Nile Basin and is based on the results of three major research projects supported by the Challenge Program on Water and Food (CPWF). It provides unique and up-to-date insights on agriculture, water resources, governance, poverty, productivity, upstream-downstream linkages, innovations, future plans and their implications. Specifically, the book elaborates the history and the major current and future challenges and opportunities of the Nile river basin. It analyzes the basin characteristics using statistical data and modern tools such as remote sensing and geographic information systems. Population distribution, poverty and vulnerability linked to production system and water access are assessed at the international basin scale, and the hydrology of the region is also analysed. This text provides in-depth scientific model adaptation results for hydrology, sediments, benefit sharing, and payment for environmental services based on detailed scientific and experimental work of the Blue Nile Basin. Production systems as they relate to crops, livestock, fisheries and wetlands are analyzed for the whole Blue and White Nile basin including their constraints. Policy, institutional and technological interventions that increase productivity of agriculture and use of water are also assessed. Water demand modeling, scenario analysis, and tradeoffs that inform future plans and opportunities are included to provide a unique, comprehensive coverage of the subject.

This volume presents innovative work on innovative methods, tools and practices aimed at supporting the transition of Asian and Middle Eastern cities and regions towards a more smart and sustainable dimension. The role of the built and urban environment are becoming more pronounced in Asia and Middle East as the regions continue to experience rapid increase in population and urbanisation, which have only led to an increase in environmental degradation but also rise in energy consumption and emissions. Individual chapters covers timely topics such as sustainable infrastructure, transportation, renewable energy, water and methods supporting an innovative and sustainable development of urban areas. Real-world examples are presented to highlight recent developments and advancements in design, construction and transportation infrastructures. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.

Environmental remote sensing plays a critical role in observing key hydrological components such as precipitation, soil moisture, evapotranspiration and total water storage on a global scale. As water security is one of the most critical issues in the world, satellite remote sensing techniques are of particular importance for emerging regions which have inadequate in-situ gauge observations. This book reviews multiple remote sensing observations, the application of remote sensing in hydrological modeling, data assimilation and hydrological capacity building in emerging regions.

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