



ETAP Validation Cases and Comparison Results

ETAP is Verified and Validated (V&V) against field results, real system measurements, published cases, other programs, and third calculations in order to assess its technical accuracy. Prior to installation, to accompany the V&V of our software and capabilities, the ETAP Test Group will use test cases to the existing history of experience. In addition, the Test Group reviews all existing test cases, as part of our extensive and comprehensive V&V process.

In accordance with IEEE Quality Assurance Program, all procedures and activities related to the quality of ETAP software are subject to internal and external audits, including customer checks and ISO 9001 third certification assessments. Test cases are reviewed during the audit process.

The document includes:

Load Flow

Load Flow Comparison Case #1

Comparison of ETAP Load Flow Results against a Published Testbook Example

Load Flow Comparison Case #2

Comparison of Load Flow Results against a Published Example

Load Flow Comparison Case #3

Comparison of ETAP Load Flow Results against Published Testbook Examples

Short Circuit

Short-Circuit MVA Comparison Case #1

Comparison of Short-Circuit Results against Third Calculations based on Application Engineering Information

Short-Circuit MVA Comparison Case #2

Comparison of ETAP Calculated Short-Circuit Calculations against a Published Example

Short-Circuit MVA Comparison Case #3

Comparison of ETAP 3-Phase Only Short-Circuit Calculations against Published IEEE Std 399-1997 Example

Short-Circuit ISC Comparison Case #4

Comparison of ETAP Short-Circuit ISC Calculations against Published Example

Arc Flash

Arc Flash Comparison Case #1

Comparison of ETAP Arc Flash Results against third calculated results based on IEEE Testbook

Arc Flash Comparison Case #2

Verification of ETAP Arc Flash IEEE 158 results against Third Calculations

Etap Reference Guide

Marcel A. Müller



Etap Reference Guide:

Power System Dynamics with Computer-Based Modeling and Analysis Yoshihide Hase, Tanuj Khandelwal, Kazuyuki Kameda, 2020-01-21 A unique combination of theoretical knowledge and practical analysis experience Derived from Yoshihide Hases Handbook of Power Systems Engineering 2nd Edition this book provides readers with everything they need to know about power system dynamics Presented in three parts it covers power system theories computation theories and how prevailed engineering platforms can be utilized for various engineering works It features many illustrations based on ETAP to help explain the knowledge within as much as possible Recompiling all the chapters from the previous book Power System Dynamics with Computer Based Modeling and Analysis offers nineteen new and improved content with updated information and all new topics including two new chapters on circuit analysis which help engineers with non electrical engineering backgrounds Topics covered include Essentials of Electromagnetism Complex Number Notation Symbolic Method and Laplace transform Fault Analysis Based on Symmetrical Components Synchronous Generators Induction motor Transformer Breaker Arrester Overhead line Power cable Steady State Transient Dynamic Stability Control governor AVR Directional Distance Relay and R X Diagram Lightning and Switching Surge Phenomena Insulation Coordination Harmonics Power Electronics Applications Devices PE circuit and Control and more Combines computer modeling of power systems including analysis techniques from an engineering consultants perspective Uses practical analytical software to help teach how to obtain the relevant data formulate what if cases and convert data analysis into meaningful information Includes mathematical details of power system analysis and power system dynamics Power System Dynamics with Computer Based Modeling and Analysis will appeal to all power system engineers as well as engineering and electrical engineering students

The Mekong Ian Charles Campbell, 2009-11-20 The Mekong is the most controversial river in Southeast Asia and increasingly the focus of international attention It flows through 6 countries China Myanmar Laos Thailand Cambodia and Viet Nam The 4 downstream countries have formed the Mekong River Commission to promote sustainable development of the river and many of their people depend on it for their subsistence it has possible the largest freshwater fishery in the world and the Mekong waters support rice agriculture in the delta in Viet Nam which produces about 40% of that country s food as well as in Cambodia Laos and Thailand China is now building the first large mainstream dam on the river and has proposals for several more These dams are likely to affect the downstream countries Several of the downstream countries also have plans for large scale hydropower and irrigation development which could also impact the river This book will provide a solid overview of the biophysical environment of the Mekong together with a discussion of the possible impacts biophysical economic and social of some possible development scenarios It is intended to provide a technical basis which can inform the growing political and conservation debate about the future of the Mekong River and those who depend on it It is aimed at river ecologists geographers environmentalists and development specialists both in the basin and especially outside for whom access to this

material is most difficult This book will be the first comprehensive treatment of the Mekong system The first comprehensive overview of all aspects of the Mekong River system Deals with a regionally critical ecosystem and one under threat The Mekong supports the world s largest freshwater fishery and provides water underpinning a major regional rice paddy system Presents the authoritative findings of the Mekong River Commission s research for a wider audience for the first time outside of limited distribution reports **Institutions, Livelihoods and the Environment** Per Ronnås,Andrea Straub,2001

Despite the recent economic crisis mainland Southeast Asia continues to experience increasing economic integration of previously isolated rural hinterlands especially in the upland areas of Lao PDR Thailand Vietnam Cambodia and Yunnan in China where demographic pressures together with the development of infrastructure and increased market orientation of production combine to bring about significant economic and social change in rural areas These changes have also led to significant environmental degradation such as deforestation disturbance of water flows and depletion of biodiversity resources These and other related issues are addressed in this volume

Cost-Benefit Studies of Natural Resource Management in Southeast Asia David James,Herminia A. Francisco,2015-03-19 This book applies cost benefit analysis techniques in the management of environment and natural resources in developing countries of the Southeast Asian region and presents a compendium of studies conducted by researchers supported by the Economy and Environment Program for Southeast Asia EEPSEA It emphasizes the close relationship between the environment and natural resources and economic development in such countries addressing a wide range of problems that can be understood using economic evaluation techniques General guidelines for conducting economic appraisals are provided with the case studies illustrating how they can be applied in a developing country context Cost Benefit Analysis Application in Environmental and Natural Resource Management in Southeast Asia serves as essential reading for teachers researchers students and practitioners in environmental and natural resource economics economic development and key issues facing policymakers in the Southeast Asian region Thermal Power Plants Mohammad Rasul,2012-01-13 Thermal power plants are one of the most important

process industries for engineering professionals Over the past few decades the power sector has been facing a number of critical issues However the most fundamental challenge is meeting the growing power demand in sustainable and efficient ways Practicing power plant engineers not only look after operation and maintenance of the plant but also look after a range of activities including research and development starting from power generation to environmental assessment of power plants The book Thermal Power Plants covers features operational issues advantages and limitations of power plants as well as benefits of renewable power generation It also introduces thermal performance analysis fuel combustion issues performance monitoring and modelling plants health monitoring including component fault diagnosis and prognosis functional analysis economics of plant operation and maintenance and environmental aspects This book addresses several issues related to both coal fired and gas turbine power plants The book is suitable for both undergraduate and research for

higher degree students and of course for practicing power plant engineers **Proceedings of Ninth International Congress on Information and Communication Technology** Xin-She Yang, Simon Sherratt, Nilanjan Dey, Amit Joshi, 2024-08-09

This book gathers selected high quality research papers presented at the Ninth International Congress on Information and Communication Technology held in London on February 19 22 2024 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers working on ICT the book offers an asset for young researchers involved in advanced studies The work is presented in ten volumes

Technical Report ,1983 **Labor Relations Reference Manual** ,2003 Vols 9 17 include decisions of the War Labor Board **User's Guide for an Interactive Personal Computer Interface for the 1998 Aeroprediction Code (AP98)**

Thomas C. Hymer, Frankie Gale Moore, Cornell Downs, 1998 This report describes interactive user friendly pre processing and post processing personal computer P C modules designed to operate with the latest version of the Naval Surface Warfare Center NSWC Aeroprediction Code AP98 As part of the preprocessing input module geometry inputs are automated by giving the user many options By using this new software a set of aerodynamic coefficients can be obtained on most weapon configurations in less than 15 minutes from time of initial setup to computer outputs compared to 2 4 hours for the AP98 computer mainframe version While the computer cost savings are modest the AP98 executes on a large computer in less than a second the manpower savings and productivity enhancements can be significant Various plots of the aerodynamic coefficients are available to the user and are plotted automatically by the post processing module Data output is also made available to the user in the form of standard Aeroprediction output files as well as tabulated data The User s Guide is designed to aid users of the AP98 by correlating AP98 P C Interface Data Inputs and the corresponding source code variable names *Handbook of Research on Emergent Applications of Optimization Algorithms* Vasant, Pandian, Alparslan-Gok, Sirma Zeynep, Weber, Gerhard-Wilhelm, 2017-10-31 Modern optimization approaches have attracted an increasing number of scientists decision makers and researchers As new issues in this field emerge different optimization methodologies must be developed and implemented The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering Featuring coverage on a broad range of topics and perspectives such as hybrid systems non cooperative games and cryptography this publication is ideally designed for students researchers and engineers interested in emerging developments in optimization algorithms

Whispering the Secrets of Language: An Emotional Journey through **Etap Reference Guide**

In a digitally-driven world wherever screens reign supreme and instant connection drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within phrases often move unheard. However, nestled within the pages of **Etap Reference Guide** a interesting literary treasure sporting with organic thoughts, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, that marvelous opus attracts readers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within ab muscles cloth of each word. Within the mental depths with this poignant evaluation, we shall embark upon a sincere exploration of the book is core themes, dissect their interesting publishing type, and yield to the powerful resonance it evokes serious within the recesses of readers hearts.

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challenges arising in unstructured and dynamic environments. Solutions Manual Create a map with a prison, four rectangular blocks that form walls with no gaps. Place the robot goal outside and the robot inside, or vice versa, and run the ... Probabilistic Robotics by EK Filter — □ Optimal solution for linear models and. Gaussian distributions. Page 4. 4. Kalman Filter Distribution. □ Everything is Gaussian. 1D. 3D. Courtesy: K. Arras ... Probabilistic Robotics - Sebastian Thrun.pdf We shall revisit this discussion at numerous places, where we investigate the strengths and weaknesses of specific probabilistic solutions. 1.4. Road Map ... Introduction to Java Programming ... - Amazon.com A useful reference for anyone interested in learning more about programming. ... About the Author. Y. Daniel Liang is currently Yamacraw Professor of Software ... Introduction to Java... book by Y. Daniel Liang Introduction to Java Programming - Comprehensive Version (Sixth Edition) by Y. Daniel Liang. It's an entire college-level course in Java in one very big ... Introduction to Java Programming (Fundamentals ... Using a fundamentals-first approach, Liang explores the concepts of problem-solving and object-oriented programming. Beginning programmers learn critical ... introduction to java programming comprehensive ... Introduction To Java Programming: Comprehensive Version by Y. Daniel Liang and a great selection of related books, art and collectibles available now at ... Introduction to Java Programming Comprehensive Version Authors: Y Daniel Liang ; Full Title: Introduction to Java Programming: Comprehensive Version ; Edition: 6th edition ; ISBN-13: 978-0132221580 ; Format: Paperback/ ... Y. Daniel Liang Home Page Introduction to Java Programming with JBuilder 4/5/6, Second Edition. (July 2001). Catalog Page/ More Info; out of print. Introduction to Java Programming ... INTRODUCTION TO JAVA PROGRAMMING ... INTRODUCTION TO JAVA PROGRAMMING-COMPREHENSIVE VERSION By Y Daniel Liang *Mint* ; Quantity. 1 available ; Item Number. 225636243140 ; ISBN-10. 0132221586 ; Book ... daniel liang - introduction java programming ... Introduction to Java Programming, Comprehensive Version (9th Edition) by Y. Daniel Liang and a great selection of related books, art and collectibles ... Introduction to Java Programming Comprehensive ... This 6th edition published in 2006 book is a real used textbook sold by our USA-based family-run business, and so we can assure you that is not a cheap knock ... Introduction to Java Programming Comprehensive Version ... Daniel Liang. Explore Introduction to Java Programming Comprehensive Version Custom Edition Sixth Edition in z-library and find free summary, reviews, read ... Strategic Default: Meaning, Consequences, Alternatives Strategic Default: Meaning, Consequences, Alternatives Strategic Default: The Consequences of 'Walking Away' Nov 26, 2021 — Strategic default occurs when a borrower purposefully stops making payments on a loan, even though they can afford to remain current. Once they ... Strategic Default: Should You Walk Away From Your Home? With a strategic default, the borrower does the math and makes a business decision to voluntarily stop making payments, even if it's within their ability to ... Strategic Default on Mortgages Apr 3, 2023 — A strategic default is when the borrower unilaterally decides to stop making payments on a debt even when they have sufficient funds ... Strategic Default | Overview & Consequences A strategic default is the decision to stop making payments on a mortgage even though the borrower has

the financial ability to continue paying. What is a Strategic Default and When is it an Appropriate ... Oct 30, 2018 — A strategic default occurs when a borrower who is able to pay their mortgage chooses to stop because a property's value has dropped ... Strategic Defaults and Tax Penalties Strategic defaults can spare home owners from crippling mortgages; however, they do not protect the forgiven debt from taxation! Often times, a strategic ... What Is a Strategic Foreclosure? Nov 24, 2020 — A strategic default occurs when a homeowner is able to make their mortgage payments but chooses not to. It's something that usually happens ... Strategic Default Explained | Debt Lawyers A strategic default is essentially a planned foreclosure. Though the borrower may be able to afford payments, continuing to make those payments will lead to ... Strategic Mortgage Default: The Effect of Neighborhood ... by MG Bradley · Cited by 61 — This paper studies strategic default—the willingness of a borrower to walk away from a mortgage when the value of the home falls below the ...