



## ETAP Validation Cases and Comparison Results

ETAP is Validated and Verified (V&V) against field results, real system measurements, published cases, other programs, and field calculations in order to assess its technical accuracy. Prior to validation, to assess the V&V of our features and capabilities, the ETAP Test Group will use test cases in the existing history of execution. 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 party certification assessment. 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 Textbook 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 Textbook Examples

#### Short Circuit

##### Short-Circuit MVA Comparison Case #1

Comparison of Short-Circuit Results against Real 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 399-2007 Example

##### Short-Circuit IEC Comparison Case #4

Comparison of ETAP Short-Circuit IEC Calculations against Published Example

#### Arc Flash

##### Arc Flash Comparison Case #1

Comparison of ETAP Arc Flash Results against field calculated results based on IEEE Standards

##### Arc Flash Comparison Case #2

Validation of ETAP Arc Flash IEEE 1587 results against field Calculations

# Etap Reference Guide

**M Mark**



## **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

**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

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

**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

*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 **Technical Report** ,1983 **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 **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 **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 **Labor Relations Reference Manual** ,2003 Vols 9 17 include decisions of the War Labor Board [Disturbed Forests, Fragmented Memories](#) Jonathan Padwe,2020-04-15 In the hill country of northeast Cambodia just a few kilometers from the Vietnam border sits the village of Tang Kadon This community of hill rice farmers of the Jarai ethnic minority group survived aerial bombardment and the American invasion of Cambodia during the Vietnam War only to find themselves

relocated to the killing fields of the Khmer Rouge regime Now back in their homeland they have reestablished agriculture seed by seed Disturbed Forests Fragmented Memories tells the story of violence and dispossession in the highlands from the perspective of the land itself Weaving rich ethnography with the history of the Jarai and their treatment at the hands of outsiders Jonathan Padwe narrates the highlanders successful efforts to rebuild their complex highly diverse agricultural system after a decades long interruption Focusing on the ecological dimensions of social change and dispossession from the precolonial slave trade to the present moment of land grabs along a rapidly transforming resource frontier Padwe shows how the past lives on in the land An engrossing treatment of timely issues in anthropology and political ecology this book will also appeal to readers in environmental studies geography and Southeast Asian studies **Energy Research Abstracts** ,1992

**Integrated Collection System User Guide** ,1999 **Integrated Collection System's User Guide** United States. Internal Revenue Service,2006 **Instructional Models in Computer-Based Learning Environments** Sanne Dijkstra,Hein P.M. Krammer,Jeroen J.G. van Merriënboer,2013-11-11 In the last decade there have been rapid developments in the field of computer based learning environments A whole new generation of computer based learning environments has appeared requiring new approaches to design and development One main feature of current systems is that they distinguish different knowledge bases that are assumed to be necessary to support learning processes Current computer based learning environments often require explicit representations of large bodies of knowledge including knowledge of instruction This book focuses on instructional models as explicit potentially implementable representations of knowledge concerning one or more aspects of instruction The book has three parts relating to different aspects of the knowledge that should be made explicit in instructional models knowledge of instructional planning knowledge of instructional strategies and knowledge of instructional control The book is based on a NATO Advanced Research Workshop held at the University of Twente The Netherlands in July 1991 **Biodiversity: my hotel in action: a guide to sustainable use of biological resources in the Caribbean** ,2008 A Handy Book of Reference on All Subjects and for All Readers with about Two Thousand Pictorial Illustrations, a Complete Atlas of Sixty-four Colored Maps, and One Hundred Maps in the Text ... Ainsworth Rand Spofford,1897 A Handy Book of Reference on All Subjects and for All Readers Ainsworth Rand Spofford,Charles Annandale,1900 *Technical Abstract Bulletin* ,1979 **Annual Department of Defense Bibliography of Logistics Studies and Related Documents** United States. Defense Logistics Studies Information Exchange,1982

## Unveiling the Magic of Words: A Overview of "**Etap Reference Guide**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Etap Reference Guide**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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