



How to specify an Electrical Digital Twin

Sep 2022

Shashwat Khare
ETAP commercial synergies director

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How **etap** enables the electrical digital twin journey

Traditional

Mobility



Electricity



A physical, static, and/or not-updated view of the network.

Digital with static data



Create, configure, visualize, and manage your electrical system model for engineering analysis and power system's operation.

- ✓ Build faster
- ✓ Manage Change
- ✓ Smart Search
- ✓ Optimize Interoperability



Network analysis includes a powerful set of analytical tools empowering design, planning, simulation and optimization of power systems, including all interconnecting line diagrams and the flexibility of a multi-dimensional database.

- ✓ Analysis and Optimization
- ✓ Automated protection and coordination
- ✓ Any Power Quality, Any Fault
- ✓ Remediation & Energy Storage
- ✓ Dynamics & Transients
- ✓ Grid-code compliance

Digital with Real time data



Monitor and predict system behavior using real-time data from smart meters or IEC61850. Quickly determine root-cause of issues and troubleshoot using live data analysis capabilities and historical data stored in ETAP's cloud.

- ✓ Operate with design knowledge
- ✓ Dealign with operational knowledge
- ✓ Prevent system interruption
- ✓ Accelerate operator training



Quickly identify and synchronize project changes from multiple engineers through **AutoPilot**

Drive collection and project updates from **etap4u™** or an engineering workstation and automatically reflected on the main model, spreadsheet updates, and broadcasted to connected users.

- ✓ Accurate project schedules
- ✓ Collaborative information sharing

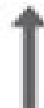
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ETAP

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etap a unified platform for Electrical digital twin

Model driven electrical system from design to operate & maintain



ETAP offers a one-stop solution with intelligent interface views and core capabilities to create,

Etap Reference Guide

Helen Leake



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 *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 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 **Energy**

Research Abstracts ,1992 **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 **Labor Relations Reference Manual** ,2003 Vols 9 17 include decisions of the War Labor Board

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

A Compendium on Environment Statistics, 2003, Cambodia

,2003 **A Handy Book of Reference on All Subjects and for All Readers** Ainsworth Rand Spofford, Charles

Annandale, 1900 **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 ...

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publication since 1949 and provides information on developments in drug control at the local national regional and

international levels that can be of benefit to the international community This issue is about world cannabis situation and

looks at the technical aspects of cannabis production cannabis consumption and at what is known about cannabis markets in

regions around the world highlighting the universality of the problem as well as at the impact of cannabis *IEEE*

Conference Record of ... Industrial and Commercial Power Systems Technical Conference, 2002 *Government Reports*

Announcements & Index, 1992 First International Symposium on Object-Oriented Real-Time Distributed Computing

(ISORC '98), 1998 Aimed at researchers professors practitioners students and other professionals this work looks at object

oriented real time distributed computing Administration & Management, 1981 *A Guide to the Use of United Nations*

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Table of Contents Etap Reference Guide

1. Understanding the eBook Etap Reference Guide
 - The Rise of Digital Reading Etap Reference Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Etap Reference Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Etap Reference Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Etap Reference Guide
 - Personalized Recommendations
 - Etap Reference Guide User Reviews and Ratings

- Etap Reference Guide and Bestseller Lists
- 5. Accessing Etap Reference Guide Free and Paid eBooks
 - Etap Reference Guide Public Domain eBooks
 - Etap Reference Guide eBook Subscription Services
 - Etap Reference Guide Budget-Friendly Options
- 6. Navigating Etap Reference Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Etap Reference Guide Compatibility with Devices
 - Etap Reference Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Etap Reference Guide
 - Highlighting and Note-Taking Etap Reference Guide
 - Interactive Elements Etap Reference Guide
- 8. Staying Engaged with Etap Reference Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Etap Reference Guide
- 9. Balancing eBooks and Physical Books Etap Reference Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Etap Reference Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Etap Reference Guide
 - Setting Reading Goals Etap Reference Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Etap Reference Guide
 - Fact-Checking eBook Content of Etap Reference Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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