



# How to specify an Electrical Digital Twin

Sep 2022

**Shashwat Khare**  
ETAP commercial synergies director



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

### Traditional

### Digital with static data

### Digital with Real time data

Mobility



Electricity



A person reads and/or not updates data of the network.

**Create, configure, customize, and manage** your electrical system model for engineering analysis and power systems operation.

- ✓ Bulk feeder
- ✓ Storage Outlets
- ✓ Smart Switch
- ✓ Operate intelligently

Network analysis includes a generation of analytical tools encompassing **design, planning, simulation and optimization** of power systems, allowing an intelligent user interface and the flexibility of a multi-dimensional database.

- ✓ Analysis and Optimization
- ✓ Automated generation and distribution
- ✓ Any Phase loading, Any Fault
- ✓ Renewable & Energy storage
- ✓ Dynamics & Transients
- ✓ Gridcode compliance

**Monitor** and predict system behavior using real time data from smart meters or SCADA. **Quickly determine root cause** of electrical anomalies, outages and technical data stored in ETAP's database.

- ✓ Operate with design knowledge
- ✓ Deal with operational knowledge
- ✓ Predict system intervention
- ✓ Accelerate operator training

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

**Data collection and project updates** from **AutoPilot** or an engineering workstation are automatically reflected in the main model, appropriate updates are broadcasted to connected users.

- ✓ Accurate project schedules
- ✓ Database information sharing

Commercial Property of Schneider Electric | Page 2

ETAP



## **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

**Minjie Lin**



## **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 Chap 1 Khouangvichit Souphab Siripholdej Boun Oum Funder Mikkel Social and economic impacts of road development in the uplands of the Lao PRD Chap 2 Tran Duc Vien Pham Thi Huong Schultz Rasmussen Michael The social and environmental dimensions of changes in land use in the Ca River Basin Vietnam Chap 3 Ahmad Alia An institutional analysis of changes in land use pattern and water scarcity in Dak Lak Province Vietnam Chap 4 Boreak Sik Increasing pressure on scarce resources Land distribution and landlessness in Cambodia Chap 5 Corlin Claes Land belongs to the ancestors land belongs to the state Conflicts between customary law among the highland minorities and national law regarding land rights and natural resources in Vietnam Chap 6 Kaosa ard Mingsarn Santikarn Ecosystem management in Northern Thailand Chap 7 Bockman Harald Environmental consciousness among ethnic minorities in Yunnan China Traditional local agreements and their modern reappearance Chap 8 Badenoch Nathan Dupar Mairi Regional forces decentralisation and local responses Institutions for natural resource management in the uplands of mainland Southeast Asia Chap 9 Jokinen Janne Reconstructing the Mekong River Commission Chap 10 Buch Hansen Mogens Is sustainable agriculture in Thailand feasible Chap 11 Lund Soren An actor based approach

to understanding stakeholders in environmental management in Southeast Asia today Some methodological considerations Chap 12 Learning from rural development programmes in Cambodia Chim Charnya Chap 13 Samath Sith Wallgren Pia jendal Joakim Adressing anarchy Decentralisation and natural resource management in Ratanakiri Province upland Cambodia Chap 14 Xi Jianchu Beyond community Governance and livelihood development in mountain watersheds of Southwest China Chap 15 Decentralisation in Northern Vietnam Village development funds in the mountain rural development programme Bent D Jorgensen

**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

**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

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

**A Compendium on Environment Statistics, 2003, Cambodia** ,2003 Government Reports Annual Index ,1981 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z

*Bridging the Gap* Helen Leake,2007 The Bulletin is a continuous 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

**A Guide to the Use of United Nations Documents, Including Reference to the Specialized Agencies and Special U.N. Bodies** Brenda Brimmer,1962 *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     *American Book Publishing Record* ,1984     *Extended Task Analysis Procedure (ETAP). User's Manual* Charles M. Reigeluth,R. K. Branson,Robert Begland,Ron Tarr,M. David Merrill,SYRACUSE UNIV NY.,1980 Extended Task Analysis Procedure ETAP is a 12 step process designed to analyze tasks that are primarily procedural in nature and tasks that are usually called Soft Skill Tasks This report is designed to assist the analyst to do an Extended Task Analysis ETAP It is a handy reference for anyone who has already completed training in the use of ETAP Author     7th Socio-Cultural Research Congress on Cambodia, 15-17 November 2004 ,2005     *Handbook of Human Performance Technology* Harold D. Stolovitch,Erica J. Keeps,1992-04-10 In forty four original chapters leading researchers and practitioners offer a state of the art perspective on the evolving field of Human Performance Technology HPT a study of technologies designed to enhance human performance and capabilities in the workplace Tracing the historical roots of HPT this book explains its theoretical underpinnings and unveils an array of models and techniques that have proven effective in enhancing individual and organizational performance

## **Etap Reference Guide** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Etap Reference Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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