

EMTP-RV

ElectroMagnetic Transients Program



TRAINING DUBROVNIK, CROATIA - APRIL, 27 - 29 2009

SIMULATION & ANALYSIS OF POWER SYSTEM TRANSIENTS WITH EMTP- RV

Instructors

Sébastien DENNETIERE
Electricité de France, France

Sébastien Dennetière graduated from Ecole Supérieure d'Electricité (Supélec) in France in 2002. He received the M.A.Sc. degree from Ecole Polytechnique de Montréal in 2003. From 2002 to 2004 he worked at IREQ (Hydro-Québec) on research and development activities related to the simulation and analysis of electromagnetic transients. In October 2004 he joined the research center of EDF where his interests are currently in the field of insulation coordination and power system simulations.

Course contents :

Theoretical background on simulation of transients in power systems with EMTP-RV :

- Typical cases of transient studies,
- Computational methods : load flow, steady state, frequency scan, and time-domain simulations,
- Fundamental notions on transients in power systems,
- How to use EMTPWorks (graphical user interface of EMTP-Rv).

Transformers and transients phenomena :

- Basic modelling requirements, which model for which type of study,
- Study of energization of power transformers, harmonic temporary overvoltages, controlled switching

Stephan PACK
Graz University of Technology, Austria

Stephan Pack was born in Graz in Austria and studied Electrical Power Engineering at the Graz University of Technology. Since 1985 he is working with the Institute of High Voltage Engineering and System Management. He is also involved in the work of the Test Laboratory at this University. In 1997 he became an associate professor in the field of high voltage engineering and is nowadays the vice head of the Institute. Additionally he is the head of the group "high voltage techniques" and therefore his work is related to the field of high voltage engineering, high voltage tests, insulation coordination, transients, numerical calculations, lightning and grounding.

For many years he has been member of the national standard organization for lightning, he has been active in a WG in IEC and National Delegate for Austria in CIGRE for System Technical Performance.

Course contents :

Insulation coordination study in a mixed overhead-cable network configuration :

- Investigation of a 110 kV network with EMTP-Rv,
- Analysis according insulation coordination rules,
- Study of several different network configurations and switching states within a mixture of overhead lines and cable sections,
- Analysis of transient lightning overvoltage trends and peak values as well as the transient stress at various network nodes.

Salih SADOVIC
SADOVIC Consultant, France

Salih Sadovic is University professor and international consultant. His research interests include overvoltages and insulation coordination, power systems analysis, numerical field computations and computer applications in power engineering. He is a member of IEEE, SEE and CIGRE.

Tarik SADOVIC
SADOVIC Consultant, France

Tarik Sadovic is research and development engineer at Sadovic Consultant, France. He is doctor student at TU Graz. His fields of interest cover: electromagnetic transients, computer control and measurement, real time remote measurement of the fast electromagnetic transients, overvoltages and insulation coordination.

Course contents :

Transmission line lightning performance :

Basic definitions. Number of strokes collected by OHL. Shielding failures and back flashovers. Critical currents. EMTP modeling for OHL lightning performance calculations: stroke distributions, tower footing resistance, line insulation, tower model, power frequency voltage, corona. How to improve line lightning performance? Line surge arresters. Case study.

HV substation lightning overvoltages insulation coordination :

Basic principles of HV substation insulation coordination. Substation equipment EMTP modeling: surge arresters, power and measuring transformers, breakers, switches, post insulators, bus bars.. Designing incoming overvoltage surge. IEEE and IEC recommended insulation coordination procedures. Cable connected HV substations. Gas insulated substations. Case study.

Switching overvoltages :

Transmission line switching overvoltages. Phase to ground and phase to phase overvoltages. EMTP modeling: source side, line models, surge arresters, closing resistor, statistical switch... Line closing and re-closing overvoltages. Fault overvoltages. Risk of failure calculation. Case study.

EMTP insulation coordination user interfaces :

Automatic creation of "net" files. Running EMTP in loop. Automatic creation of line, arrester and cable models. Running EMTP statistical studies. Automatic calculations of insulation risk of failures.



Electromagnetic Transients Program Application Guide

Juan A. Martinez-Velasco



Electromagnetic Transients Program Application Guide:

Electromagnetic Transients Program Application Guide Book Review: Unveiling the Magic of Language

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

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