Introduction i

1. D. Povh, 0. Völcker, G. Bizjak, P. Zunko
Calculation of Transient Phenomena 1

2. J. Kosmac, F. Zlahtic, P. Zunko
Experience in Modelling Medium Voltage Network Elements for Single Line-to-Earth Faults 7

3. J. Kosmac, P. Zunko
A 6.3 KV Vacuum Breaker Model for ATP Simulations 17

4. B. Hlebcar, D. Povh
Parameteridentifizierung eines Modells aus mehreren Generatoren mit Hilfe des Programms NETOMAC 23

5. G. Bizjak, D. Povh, P. Zunko
Model of Slovenian Electrical Power Network for NETOMAC Digital simulation Program 31

6. M. Erche, E. Lerc , D. Povh, R. Mihalic
Improvement of Power System Performance Using Power Electronic Equipment 37

7. R. Mijhalic, P. Zunko, I. Papic, D. Povh
Improvement of Transient Stability by Insertion of Facts Devices 47

8. R. Mihalic, P. Zunko
Phase Shifting Transformer with Fixed Phase Between Terminal Voltage and Voltage Boost - Tool for Transient Stability Margin Enhancement 53

9. r. Mihalic, P. Zunko
Thyristor controlled Phase Shifting Transformer with Pure Phase Shift - Tool for Fast Load Flow control 57

10. I. Papic, P. Zunko, D, Povh
Comparison between Advanced static Var Compensator and synchronous voltage Source 63

Appendix

11. Oscillograms 71