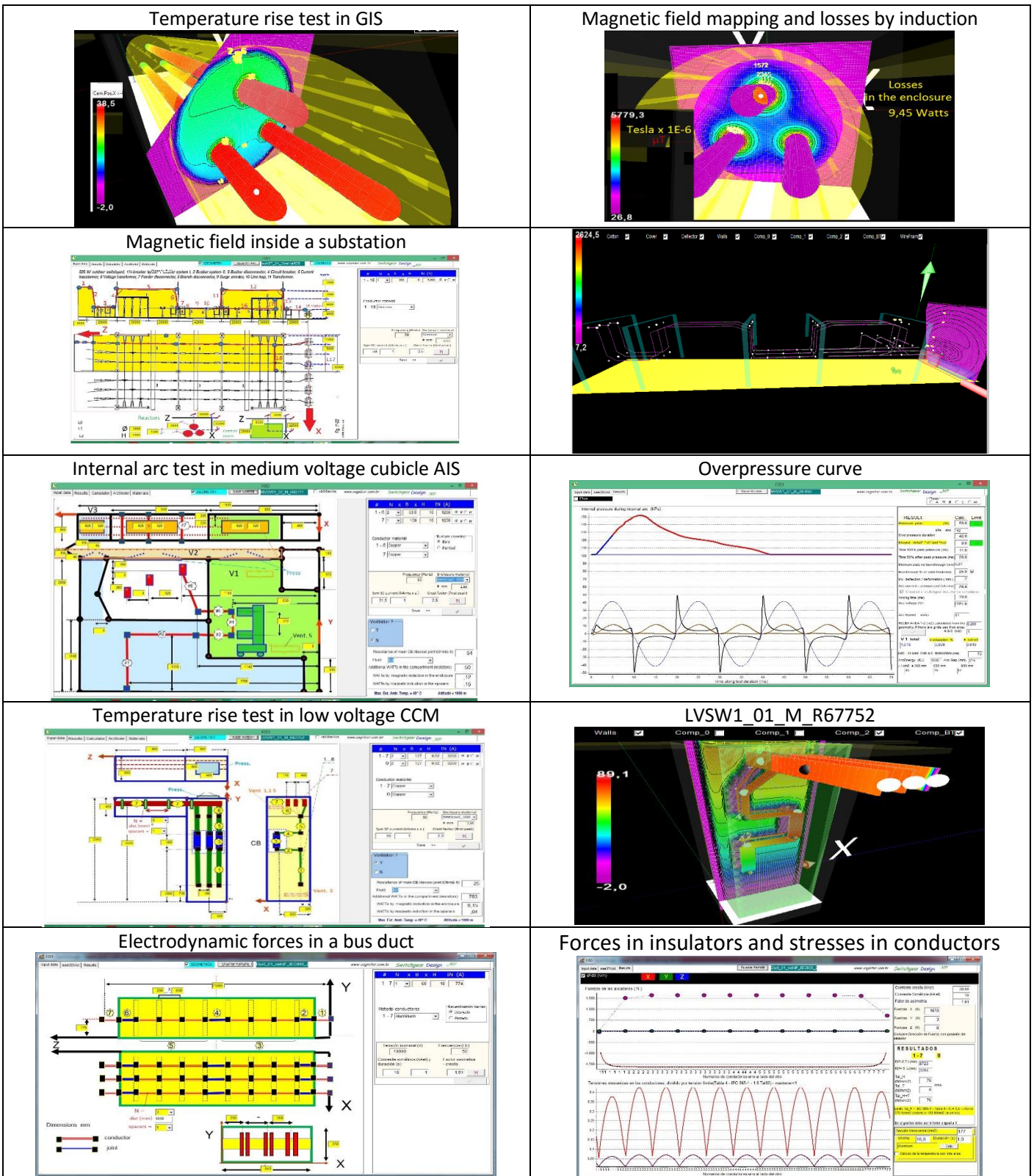


DESIGN OF SWITCHBOARDS, SWITCHGEAR & BUSWAYS using software SwitchgearDesign.

IEC 61439 & IEC 62271-200/201/1 & IEC 62271-307

Internal arc, temperature rise, electrodynamic forces, mapping of magnetic & electric fields for EMC problems



COGNITOR - Design of Testing Laboratories, Equipment for Substation and Testing Simulations.

Phone (55-21) 2465 3689 or (55-21) 3393 4600 SKIPE: sergiofeitoza1

Email sergiofeitoza@cognitor.com.br Site http://www.cognitor.com.br/en_home.htm

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TRAINING “ON-LINE” or “IN COMPANY “

You may get the whole training + software or only the sub parts you want

Complete Course <http://www.cognitor.com.br/SoftwareEN.htm> Parts and prices <http://www.cognitor.com.br/ChaptersEN.htm>

This training is handmade for manufacturers and big users of high to low voltage equipment as well as certification companies and testing laboratories. It is applied all over the World and useful for whom want to know sound engineering design concepts and to apply these concepts in the design and use of equipment for power substations. The participants receive and learn how to use the design software SwitchgearDesign developed by the lecturer of the training. The lecturer is an electrical engineer experienced in laboratory testing operation and design, specifications and in preparing IEC technical standards. SwitchgearDesign permits to develop substation equipment simulating their performance during type tests before going to do a real test in laboratory. The program of the course cover topics like:

- Specification and testing of MV and LV switchboards, switchgear, transformers, circuit breakers, isolators, fuses, busways , etc..
- Details and understanding of opportunities to reduce the need of expensive testing according to IEC technical standards 62271-1 / 100 / 200 /307 (medium – high voltages) and IEC 61439 (low voltage)
- Laboratory tests (breaking, short circuit, internal arc, heating, electro dynamical forces and others)
- Methods of calculation of electrical and mechanical effects and how to improve the design.
- Magnetic and electric fields mapping in substations to solve EMC problems
- How to use the software SwitchgearDesign to simulate and design your equipment for temperature rise, short time and crest current (electrodynamic forces) and internal arc tests.

Validation of temperature rise , magnetic and electric fields	http://www.cognitor.com.br/TR074ENGValidationTempRise.pdf
Validation of internal arc tests and electrodynamic forces	http://www.cognitor.com.br/TR075ENGValidationForcesArc.pdf
Some articles written by the lecturer	http://www.cognitor.com.br/download.htm
CV of the lecturer	http://www.cognitor.com.br/en_curriculum.htm

The CV of the lecturer include a long experience in laboratory testing, design of equipment and testing laboratories and participation in IEC working groups which prepare IEC standards including the one preparing the new IEC 62271-307 to be published. http://www.cognitor.com.br/en_curriculum.htm

If your company is interested in this training and need more details please contact me in the directions below. I will be pleased to answer your questions.

With Kind Regards

Sergio Feitoza Costa (Lecturer and developer of SwitchgearDesign)

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