

FLUX V10 3D Applications

applied magnetics
electromagnetic and thermal analysis software



Duration	3 days
Goal	Achieve a good command of FLUX 3D Applications
Who should attend	Current and new FLUX3D users
Language	English
Dates	March 31, April 1-2, 2009
Location	Hôtel du Mont-Blanc (1110 Morges) www.hotel-mont-blanc.ch
Organisation	applied magnetics www.maglink.net

General features

March 31, 2009

- Supervisor
- Geometry description and mesh generation
- Advanced CAD import capabilities
- Materials description
- Linear, surfacic and volumic region features
- Boundary conditions
- Symmetries and periodicities
- Sources description (meshed coils, volumic coils, permanent magnets, source fields)
- Introduction to the PYTHON command language
- Application examples (rear view motor, switch)

Solver and postprocessor

April 1, 2009

- Parametric studies with FLUX
- Automatic tasking with PYTHON
- Solving scenario
- Postprocessing (2D curves visualisation, isovalues and arrows, sensors, data export to Windows office, multipoint support, inductance, force and torque computation)
- Iron losses computation
- Application examples (closed loop current sensor, transformer)

Advanced features

April 2, 2009

- Circuit and kinematic coupling
- Advanced PYTHON commands (Full sequence control with PYTHON)
- User macros management
- Multiphysics features (coupled magnetoharmonic and thermal applications with data exchange through a PYTHON file)
- Advanced features (surface impedance, J-hyperbolic shell region, solid conductors with 2 and n terminals)
- Transient computations (Application to a linear actuator)
- New V10.3 features (circuit descriptor in FLUX, co-simulation with Portunus, automatic 2D meshing, solver acceleration, extended postprocessing)

capabilities, smoothing algorithm for color representation, color palette choice,...)

REGISTRATION FORM FOR A TRAINING COURSE

To be sent back to **applied magnetics** – Grand-Rue 84 – CH 1110 Morges

Fax : +41 21 803 58 78

Organization / department

Name

Address

.....

Tel Fax

E-mail

FLUX 3D Applications course		Payment to :	Fees / Participant Excluding 7.6% VAT in CHF
1. FLUX V10 3D Applications (3 days)	<input type="checkbox"/>	applied magnetics	<i>2'250.00</i>

Course dates:	Amount excluding VAT	<i>2'250.00</i>
March 31, April 1-2, 2009	VAT 7.6 %	<i>171.00</i>
	Total amount per participant	<i>2421.00</i>

Payment

By check, included and payable to **applied magnetics, Dahó TAGHEZOUT**

or

By bank transfer on the following account:

Owner **Daho Taghezout** Account number **F4-701,953.3**

UBS SA (SWIFT CODE **UBSWCHZH10A, IBAN CH0200243243F47019533**)

A confirmation will be sent to the participants soon after the payment of the course fees.

Registration deadline : **March 20, 2009**

Registration fees include the lunch, coffee breaks and course documentation

Date et signature :

In case of a cancellation, registration fees can be fully recovered if notice is given at least two weeks before the starting date of the training course. The course will take place with a minimum of 4 registrations. Participants will be individually informed about the course organisation.