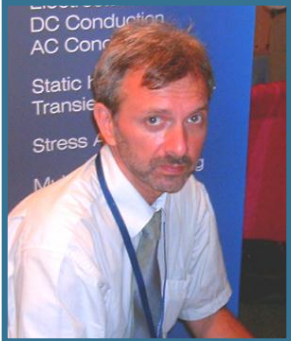# Speakers

Vladimir Podnos,
Director of Marketing and Support,
Tera Analysis Ltd.

QuickField 5.10 overview

Alexander Lyubimtsev
Support Engineer, Tera Analysis Ltd.

Practical application of QuickField 5.10

QuickField 5.10 overview

Vladimir Podnos,
Director of Marketing and Support,
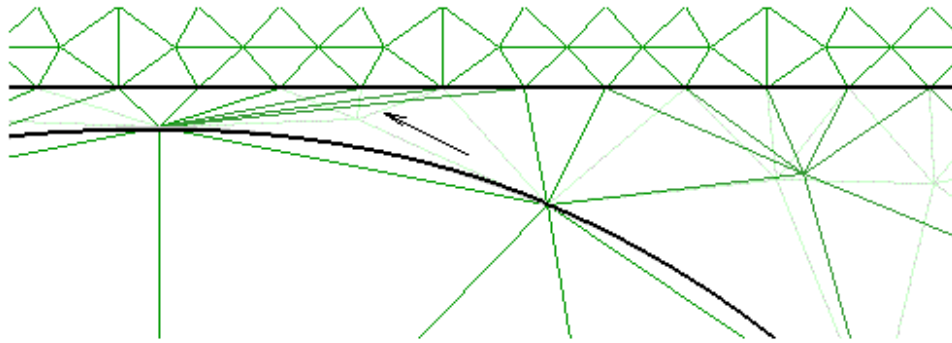**Tera Analysis Ltd.**

Main new features

- **Improved mesher**

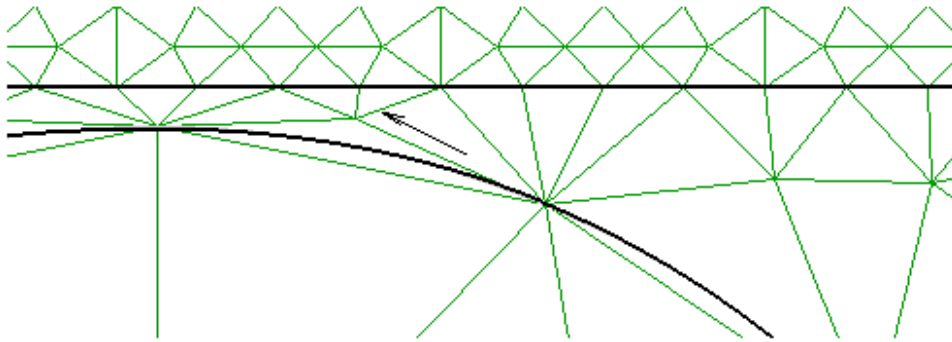- **Two modes of magnetic state import from DC to AC or DC Magnetic problems**

Main new features:
improved mesher

QuickField Analysis Options

Magnetic Suite

    AC Magnetics

    Transient + DC Magnetics

       DC Magnetics

Electric Suite

    AC conduction + Electrostatics & DC conduction

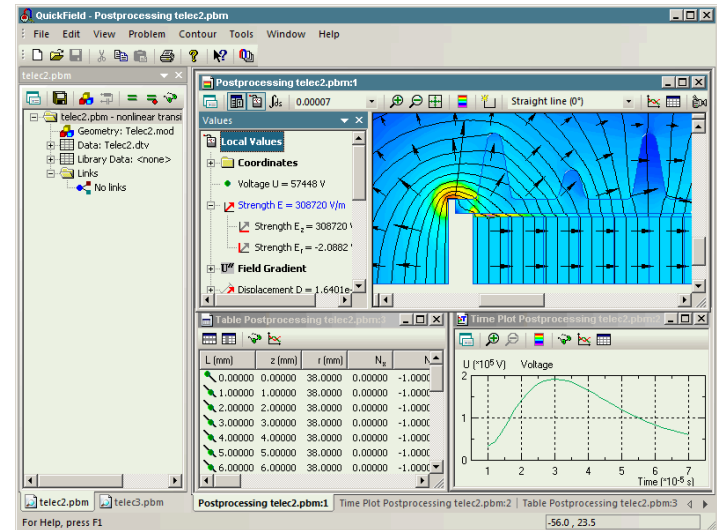   Transient Electric + Electrostatics & DC conduction

       Electrostatics & DC conduction

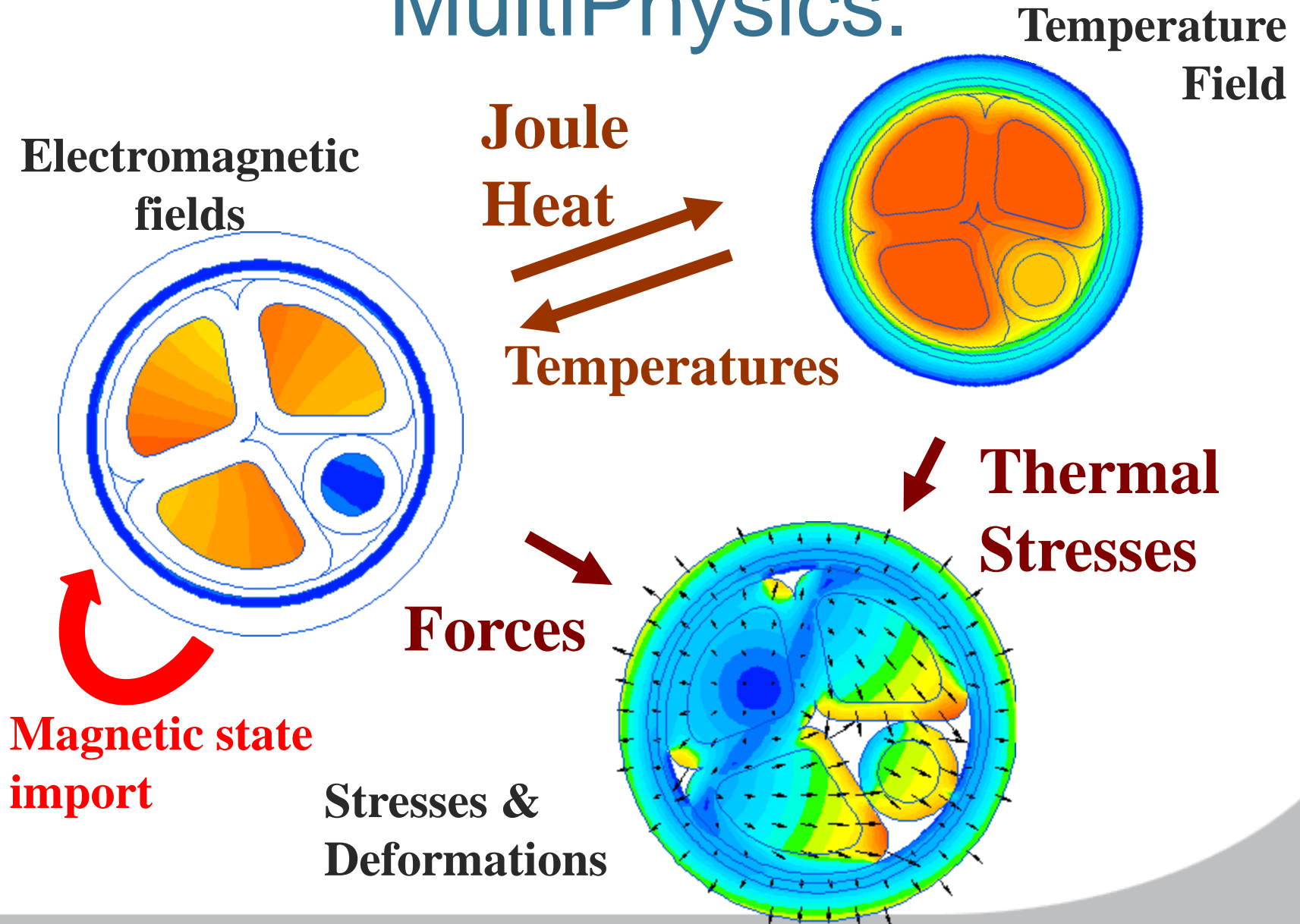**Thermostructural**

    Stress Analysis

    Transient Heat transfer
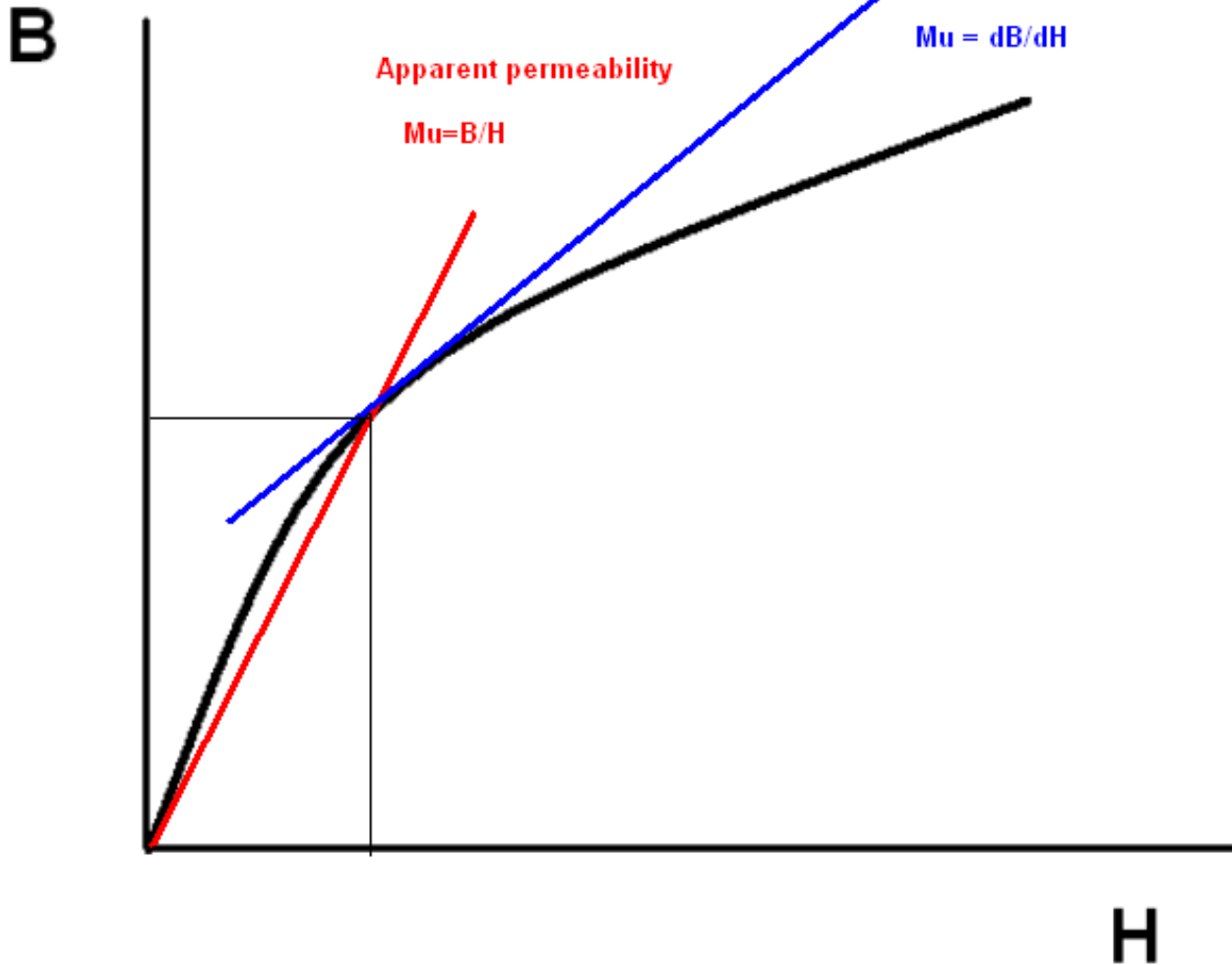
       Steady State Heat transfer

MultiPhysics.

Temperature Field

Electromagnetic fields

Joule Heat

Temperatures

Thermal Stresses

Forces

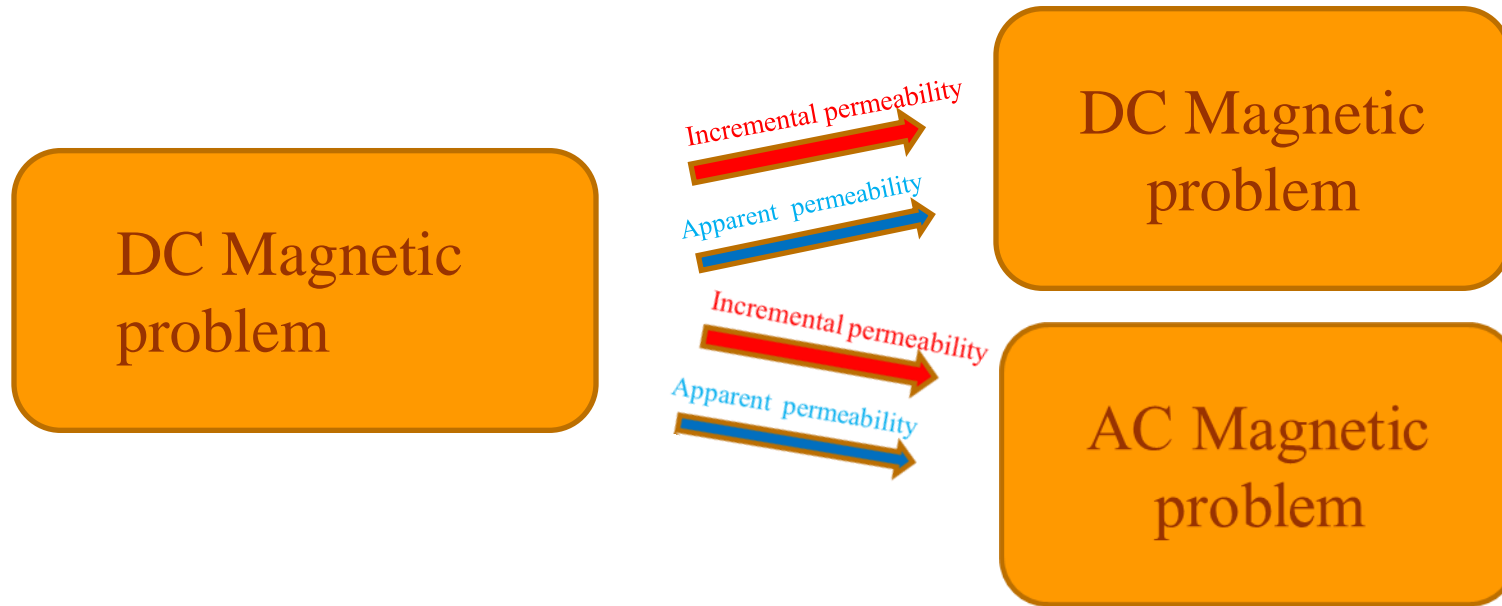**Magnetic state import**

Stresses & Deformations

Import of DC-biased magnetic permeability to AC and DC Magnetic problems

Nonlinear magnetic material

Import of DC-biased magnetic permeability to AC Magnetic problems

DC Magnetic problem

Incremental permeability

Apparent permeability

DC Magnetic problem

Incremental permeability

Apparent permeability

AC Magnetic problem

Magnetic State Import

System requirements

- Windows XP, Vista or Windows 7, USB port for copy-protection

- 2 GB RAM for individual simulations OR

- More RAM for parametric studies on a multicore system

QuickField Difference

How to keep the version current

- One-time update costs 30 %

- 12 months maintenance with free updates costs 20 % (available for latest version only)

- All new orders go with 3 month maintenance included
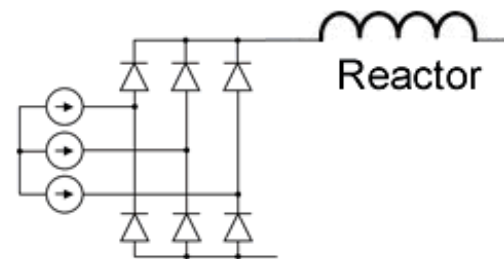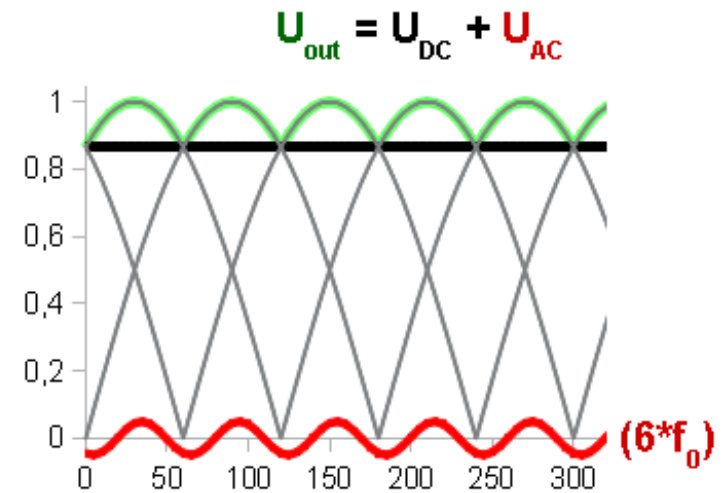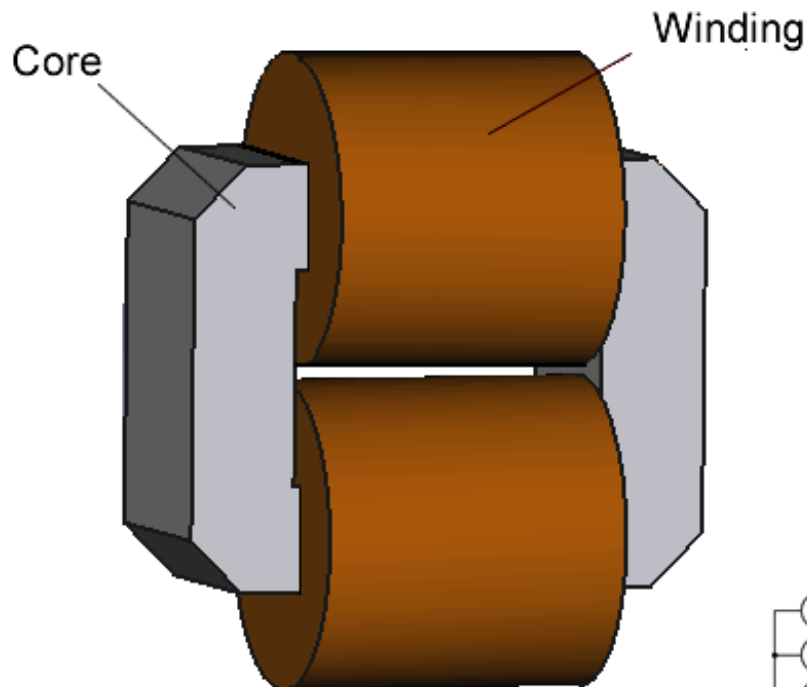
What's new in QuickField 5.10

Alexander Lyubimtsev,
Support Engineer, Tera Analysis Ltd.

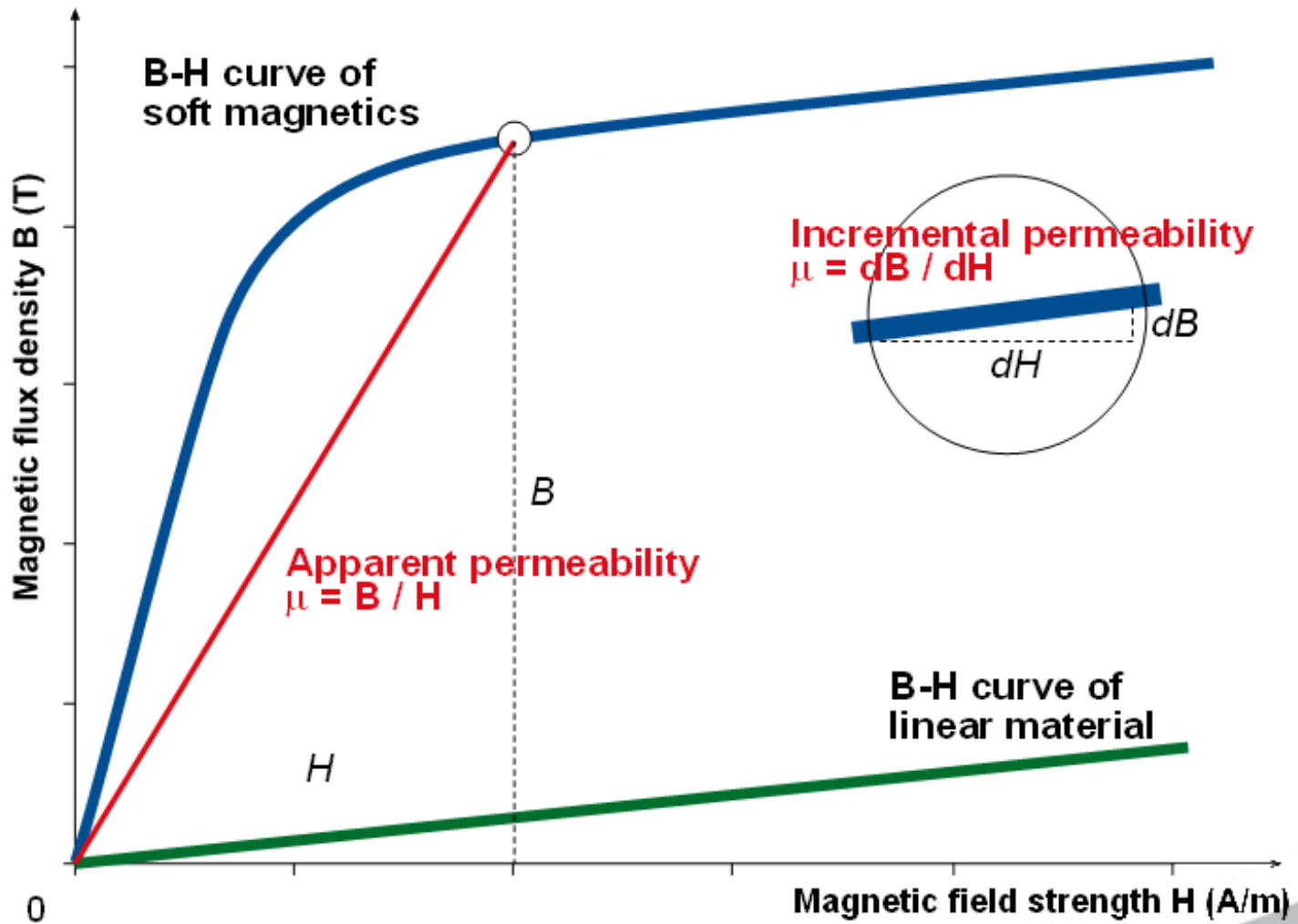**Practical applications of QuickField 5.10**
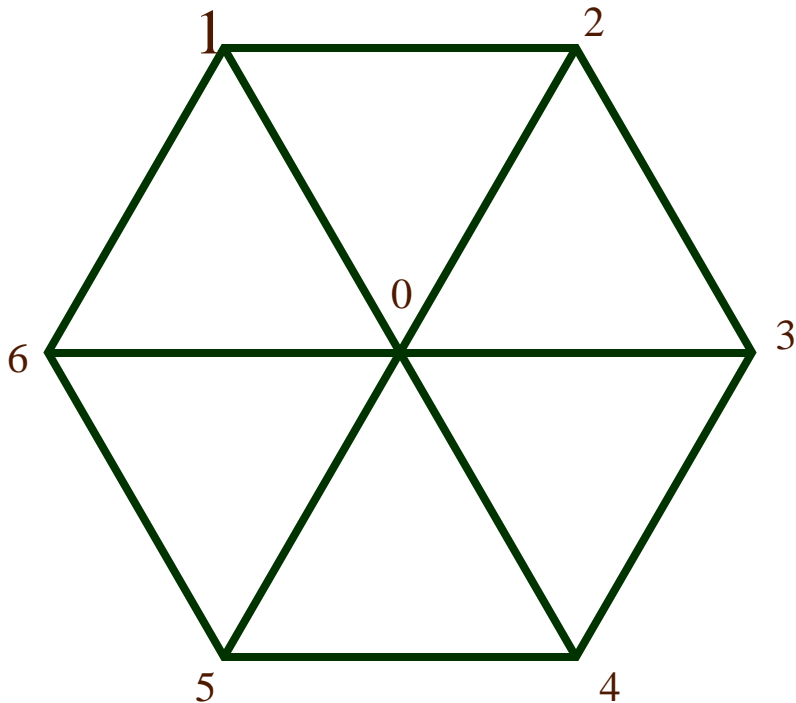
What's new in QuickField 5.10
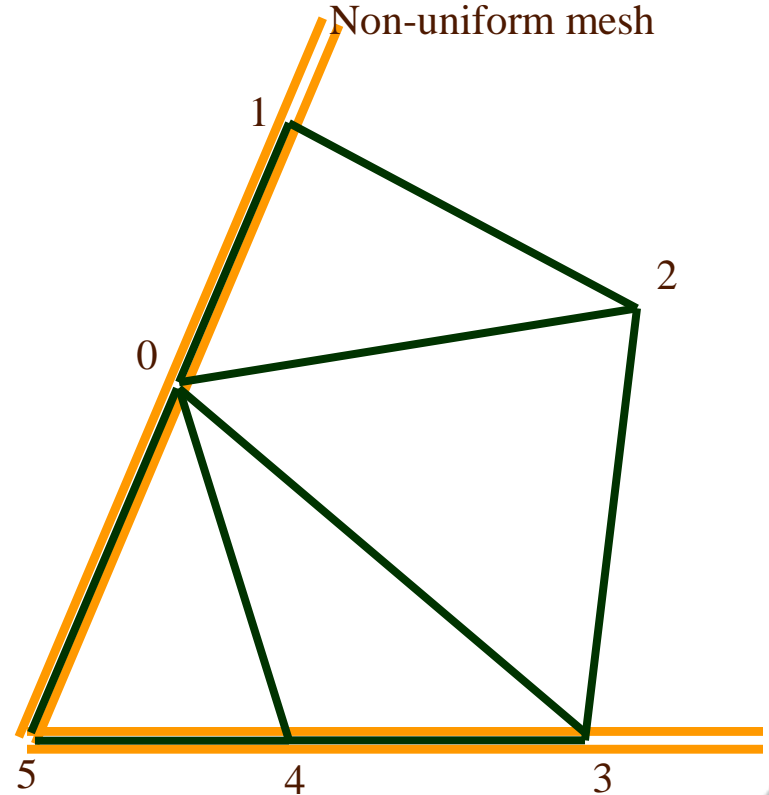
What's new in QuickField 5.10

What's new in QuickField 5.10

Uniform mesh

Non-uniform mesh

What's new in QuickField 5.10

induction coil

steel tube