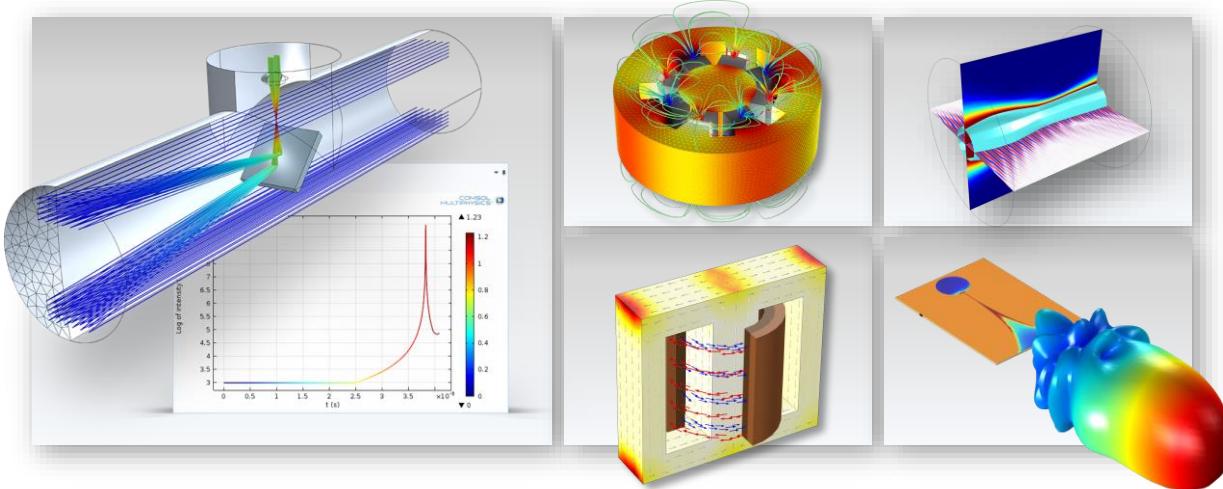


Elektromagnetismus



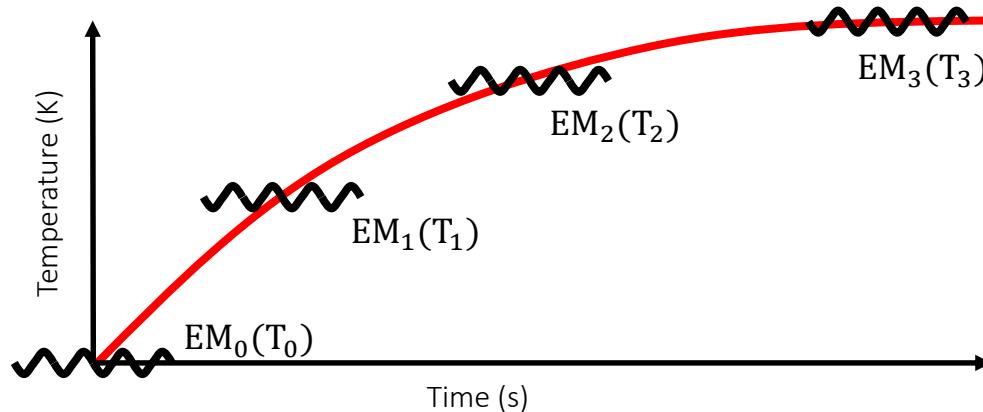
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Time Scales in Calculation

- 1) Electric and magnetic fields oscillate ~ 1 GHz $\longleftrightarrow \sim 1$ ns
- 2) Thermal problem evolves on a scale of ~ 1 s

Solution

Solve thermal problem in the time domain and EM problem in the frequency domain, updating with new solution when material properties change significantly.



Busbar AC

- Simulace AC zdroje ($f = 50\text{Hz}$)
- Zjednodušení zdroje napětí
- Výsledky
 - Magnetické pole
 - Hustota proudu
 - Elektromagnetické síly
 - Indukovaný proud

