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Additional Finite Element Formulations. In the examples above, we have formulated the discretization of the model equations using the same set of functions for the basis and test functions. One finite element formulation where the test functions are different from the basis functions is called a Petrov-Galerkin method.

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In the current study, a new inclusive multiphysics (involving mechanical, electrical, and thermal fields) finite element model (FEM) of a 35A automotive connector has been developed. The contact resistance is predicted using a multiscale rough surface contact method and is embedded in the multiphysics FEM.

A Multiphysics Finite Element Model of a 35A Automotive ...

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List of finite element software packages - Wikipedia

COMSOL Multiphysics® (known as FEMLAB before 2005) is a commercial finite element software package designed to address a wide range of physical phenomena . Noting the increased use of this product in analytical electrochemistry, the authors aim to review its relevance and practical use in this field.

The Finite Element Method (FEM) in COMSOL Multiphysics ...

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Detailed Explanation of the Finite Element Method (FEM)

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The finite element model illustrates the local physics interactions at microscopic scale, beginning from the electrical excitation on the piezoelectric actuator until the droplet separation from the liquid surface as aerosol. COMSOL Multiphysics version 4.2 software is used for FEM modeling and analysis.

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Multiphysics Finite Element Methods for a Poroelasticity Model

What is Multiphysics. History, Definition, Scope, and Practice. A multiphysics 101 and a complete framework for multiphysics. Mathematics. Basic mathematics for talking and doing multiphysics. This is the language for multiphysics. Monolithic Physics. Common physical fields we would encounter in most science and engineering applications ...

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