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Figure 1 CEM Flowchart 3 Aircraft
Test Campaign Before testing,
several lightning attachment
scenarios were selected in an

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current attachment scenarios while measurements of currents, voltages and magnetic fields focused in the composite wing area. The high fidelity aircraft model has been resolved with EMA3D software. It includes accurate structural features, fasteners, wiring and systems tubing.

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Computational electromagnetics, computational electrodynamics or electromagnetic modeling is the process of modeling the interaction of electromagnetic fields with physical objects and the environment. It typically involves using computer programs to compute approximate solutions to Maxwell's equations to calculate antenna performance, electromagnetic compatibility, radar cross section and electromagnetic wave propagation when not in free space. A large subfield is antenna modeling computer prog

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Electromagnetic modeling of transformers is of paramount

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Computational electromagnetism is concerned with the numerical study of Maxwell equations completed by constitutive laws to account for the presence of matter and the field-matter interaction. Constitutive laws are an approximate but simple summary of a very complex interaction between the compartment of main interest and secondary ones.

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ABSTRACT This project is an interdisciplinary collaboration involving mathematical modeling, computational simulation and experimental data for accelerating the design of advanced electromagnetic nanocomposite materials as well as alternative power generators.

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Indeed, computational models
have now become a standard tool
for assessing proposed new
biological mechanisms, often
considered essential even when
the associated experimental
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The integrated model has been
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