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ELECTRICAL AND COMPUTER ENGINEERING DEPARTMENT  
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Put the title of the abstract in capital letters. Provide first name, middle initial, and last name of the author and co-authors. Be sure to list any co-authors even if they are not co-presenters. Underline the name of the presenter. Put the name of your faculty advisor in parentheses. The name and address of the department and institution where the research was completed is next.

**Sample Abstract:**

VALIDATION OF HFSS S-PARAMETERS WITH MEASURED DATA

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In order to ensure the validity of the wire-bond models created in Ansoft HFSS, the models were simulated, and the resulting S-parameter magnitude (dB) data was compared with the corresponding S-parameter data from actual measurements provided by Motorola. Before the models were simulated, their two ports were properly defined along with the corresponding impedance/calibration lines, and also a radiation boundary was carefully selected for the wire-bond model. Although the measured data ended at a frequency of 40 GHz, the models were simulated up to 65 GHz to cover the desired frequency range of the final ADS model. Before the S-parameter comparisons were made, the HFSS S-parameter data was de-embedded back along the microstrip transmission lines to the points of the wire bonds. All in all, the simulated data and the measured data were in excellent agreement, especially for the two-wire and three-wire cases. With confidence in the HFSS wire-bond models, the input parameters of the final ADS model were divided into discrete points over their various ranges, and simulated to obtain additional sets of S-parameter data. The lumped-element ADS model was then curve-fitted to these sets of data via optimization.