

ANGULAR POSITION EVALUATION IN SPATIAL PHASOR MODELING USING PSPICE

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Abstract. A numerical method for determining the angular position of a spatial phasor is proposed, when PSpice simulation is used for the analysis of an a.c. electrical machine behavior. At the beginning, the principle of the methods is based on and its particularities are shown, then a dedicated subcircuit is created, which can be called when required by any analysis program. This subcircuit is used to determine the angular position of an a.c. electrical machine in different working states. Finally, some results obtained in Pspice are given.

Key words: Spatial phasor; angular position; PSpice.