

MODELING AND SIMULATION OF CONDUCTED EMI
NOISE GENERATED IN THE ELECTRIC POWER
CONVERTERS OF THE ELECTRIC AND HYBRID
ELECTRIC VEHICLES

by
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Summary : Free modeling and simulation of conducted emi noise generated in the electric power converters of the electric and hybrid electric vehicles pdf download - in developing a complex power electronic system proper modeling at prototype sample level can save the time and cost to develop final product hybrid electric vehicle hev is equipped with several high-powered electric devices such as dc dc converters and dc ac inverters considering that there are many restrictions in mounting and wiring the electric power system in engine room analysis and modeling of electromagnetic interference emi coupling path is crucial in designing optimal electric power system satisfying various emc regulations in this thesis conductive common mode cm and differential mode dm equivalent models for those electric power converters used in hybrid electric vehicles hev were developed and evaluated through the simulation both in time domain and frequency domain the simulation results were compared to those of real experimental tests performed in emc testing laboratory it is confirmed that the suggested noise equivalent models followed the actual power electric systems in the point of conducted cm and dm emi view

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