

# Electromagnetic Compatibility Engineering for Electronic Circuits and Devices

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**Abstract**—In this presentation the simulation of near- and far-field propagation of stochastic electromagnetic fields is discussed. The modeling of stochastic EM fields plays a crucial role in the electromagnetic compatibility design of electronic devices, circuits and systems. For the description of stochastic EM fields correlation dyadics are introduced. For the transformation of the field correlation dyadics using Green's functions are used. The method accounts for arbitrary correlations between the noise radiation sources and allows to compute the spatial distribution of the spectral energy density of noisy electromagnetic sources. The Method of moments (MoM) can be applied to solve noisy electromagnetic field problems by network methods applying correlation matrix techniques. Numerical examples, demonstrating the strong influence of the correlation between the sources on the spatial distribution of the radiated noise field are presented.

Noise in electromagnetic fields plays an important role in wireless communications, electromagnetic sensorics and in radiated electromagnetic interference since it may degrade or obstruct the performance of systems. The origins of electromagnetic noise may be thermal background noise, terrestrial noise and electromagnetic interference radiated by electric and electronic systems. Noise in electromagnetic systems degrades the signal quality in wireless information transmission. Radiated electromagnetic interference can impose severe limitations on the performance of electronic systems. For many design tasks in electronics, especially in the case of computer-aided design and manufacturing of electronic systems, accurate modeling of the system performance under the influence of electromagnetic noise and radiated electromagnetic interference is required.

The importance of an electromagnetic theory-based in-depth analysis of wireless communication systems, taking impedance matching, antenna mutual coupling, and different sources of noise into consideration, has already been stressed in [1], [2]. Mutual coupling of antenna elements in array antennas introduces limitations on element efficiency and reduces the signal diversity in multi-antenna communication systems [3]. Integrated circuits frequently are the main source of radiated emissions in electronic systems. Near-field characterization of radiating electromagnetic structures allows for a modeling of the electromagnetic field generated by these structures when embedded into a circuit or system environment and therefore can be an efficient tool for computer aided manufacturing of electric and electronic systems.

Apart from the cases where radiated electromagnetic noise is only an interference factor for the information carrying electromagnetic field also those cases are of technical impor-

tance, where a stochastic or chaotic electromagnetic field is the intrinsic carrier of information or energy. Infrared detectors for the long-wave infrared range (LWIR) are of special interest due to their ability to detect blackbody radiation of objects at room temperature [4], [5]. Such detectors are attractive candidates for various applications including energy harvesting, target tracking, and thermal imaging. Nearfield-coupled nano-antennas with antenna-coupled thermocouples may open to possibility of obtaining carrier phase after envelope demodulation [6].

Due to the equivalence principle [7, p. 106], [8, p. 121] an equivalent source distribution determined by amplitude and phase scanning of the tangential electric or magnetic field on a surface enclosing the radiating structure is equivalent to the internal sources and allows to model the environmental field. Numerous research groups have investigated the characterization of the radiated electromagnetic interference of devices by near-field measurements [9], [10]. The goal has been to establish a model of the device under test that allows modeling the EMI radiated by the device under test into the environment.

Due to the lack of numerical tools for the treatment of stochastic electromagnetic fields in literature often methods for deterministic fields are applied to the modeling of stochastic fields. This yields problems if the noise sources are spatially distributed and only partially correlated. Usually we have to consider a partial correlation of the noise sources. In this contribution we present a methodology for the numerical computation of noisy electromagnetic fields excited by spatially distributed noise sources with arbitrary spatial correlation. Throughout this presentation we assume that the considered stochastic signals and stochastic fields are Gaussian random processes [11, p. 154]. This guarantees that auto- and cross correlation functions and spectra, respectively, yield a complete description of the stochastic signals.

The scanning of the near-field amplitude distribution only is possible if phase and amplitude of the near field signals are well-defined, i.e. when phase and amplitude signals are fully correlated for any pair of sample points in the near-field. In general this requirement is not fulfilled for the EMI radiated by electronic circuits. Even if the signals flowing in an IC or in a circuit board are deterministic, the complexity of the interdependence of signals flowing in different parts of the circuit areas cannot be revealed by the near-field measurement. Therefore, due to this inherent lack of information the near-field measurement has to be performed accounting for the statistical nature of the near-field.

Due to the lack of information about the sources of the radiated EMI, the near-field to be measured has to be treated as

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