

An Introduction To Electromagnetic Compatibility Emc

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By definition, Electromagnetic Compatibility (EMC) describes the ability of a system, a piece of equipment, or some other electrical device that utilizes electromagnetic energy, to operate in its intended environment without suffering an unacceptable degradation in its performance, or negatively impacting the ability of another device to perform its intended function.

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Abstract. Electrical, electromechanical, and electronic equipment all must comply with specifications intended to assure electromagnetic compatibility (EMC), which is the ability of systems, subsystems, circuits, and components to function as designed, without malfunction or unacceptable degradation of performance due to electromagnetic interference (EMI), within their intended operational environment.

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Electromagnetic compatibility is the ability of electrical equipment and systems to function acceptably in their electromagnetic environment, by limiting the unintentional generation, propagation and reception of electromagnetic energy which may cause unwanted effects such as electromagnetic interference or even physical damage in operational equipment. The goal of EMC is the correct operation of different equipment in a common electromagnetic environment. It is also the name given to the associ

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So, electromagnetic compatibility is a broad area. It refers generally to the ability of the device, such as a power supply, to function in a proper manner, satisfactorily, in an electromagnetic environment that may have other components or systems present. So that's being capable of operating in the presence of the electromagnetic environment around, that can be affected by other subsystems in the surrounding of the unit itself. That particular aspect is referred to as susceptibility.

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