

Controlling Conducted Emissions by Design

J. Fluke



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This book presents a useful way to "design in" electromagnetic compatibility (EM C). EMC design considerations are often an addendum to the design. These Band-Aid fixes are not the best approach most of the time but are all that is possible at a late stage in the design and development process. This book is not the classic "EMI fix cookbook"; it is intended for all electronics design engineers. The analytical tools presented enable the designer to address EMC considerations early in the design process. Power conversion engineers will find the enclosed information especially important because of the inherent conducted emissions problems in power conversion equipment. Switching power supplies are commonly the most significant noise generators in electronic systems. In most design work, if the conducted emission problem is addressed, good layout and packaging will ensure that the conducted and radiated electromagnetic interference (EM!) requirements are met. The EMI process involves three components: source, path, and victim. These elements are easily modeled on the computer. The methods of modeling and analysis on the computer are the essence of this book. The EMI source is analyzed using the FFr and the results are applied to a computer model of the path and victim (test setup). The resulting currents are measured and compared to a standard.

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