ROHDE&SCHWARZ
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SEMINARI MARZO 2023
ELETTRONICA DI POTENZA

BEST PRACTICES IN TESTING SWITCHED-MODE POWER SUPPLIES

Approcciare le problematiche di progettazione e misura più frequenti in ambito di elettronica di potenza, illustrando i vantaggi nell'utilizzo di strumentazione Rohde&Schwarz e di componentistica Wierth Electronic, con il supporto di dimostrazioni pratiche dal vivo.

Intervento della mattina:

We will discuss the various measurements that can be performed on switched mode power supplies using oscilloscopes in a context where emerging semiconductor technologies are becoming more and more common. One of the main areas of focus will be frequency response analysis, which involves analyzing the frequency response of the power supply to determine its performance and stability. Another important measurement is EMI debugging, which involves identifying and troubleshooting any electromagnetic interference that may be affecting the power supply.
We will also cover the measurement of switching frequency, which is critical in determining the performance of the power supply. Additionally, we will discuss the measurement of voltage and current waveforms, as well as rise and fall times, which are important in understanding the behavior of the power supply under different load conditions.

Intervento del pomeriggio:

Choosing the appropriate capacitor technology, storage inductors, switching frequency and semiconductors, among other factors, is vital for the efficiency of DC/DC switching regulators with relatively high input and output currents. A high-efficiency switching regulator is market-ready if it, and the end product in which it is used, comply with all necessary EMC standards. This often means that further appropriate filters must be included at the input and output to reduce emissions of interference. For this part of the seminar, a FLYBACK converter has been considered in order to illustrate the EMI noise generated by isolated topology, and to demonstrate how the noise can be attenuate by the appropriate EMC components.

Orari	Programma
08:00 - 08:30	**Registrazione**
08:30 – 09:00	**Introduzione**
09:00 – 10:30	**Parte 1 - sessione in inglese** **Ing. Gabriel Rojas (Rohde & Schwarz)**
10:30 – 11:30	Coffe Break - con possibilità di provare gli strumenti di misura
11:30 – 12:30	**Parte 1 - sessione in inglese** **Ing. Gabriel Rojas (Rohde & Schwarz)**
12:30 – 13:45	Pranzo
13:45 – 15:15	**Parte 2 - sessione in italiano** **Ing. Angelo Strati (Wuerth Electronic)**
15:15 – 15:45	Coffe Break - con possibilità di provare gli strumenti di misura
15:45 – 16:45	**Parte 2 - sessione in italiano** **Ing. Angelo Strati (Wuerth Electronic)**
17:00	Fine lavori

Dove e quando!

► 14 Marzo 2023 : Milano
Inscription

► 15 Marzo 2023 : Padova
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► 16 Marzo 2023 : Bologna
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Numero di posti limitati!

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