



POWER MANAGEMENT

Live Course @ EPFL, Lausanne, Switzerland

AUGUST 26-30, 2024

Monday, August 26

08:30 - 10:00 am	Fundamentals of SC Converters and Topologies	Filip Tavernier
10:30 - 12:00 am	Analysis and Modeling of SC Converters	Filip Tavernier
01:30 - 03:00 pm	Power Stages	Bernhard Wicht
03:30 - 05:00 pm	Gate Drivers	Bernhard Wicht

Tuesday, August 27

08:30 - 10:00 am	GaN Drivers and Circuits	Bernhard Wicht
10:30 - 12:00 am	Protection and Sensing	Bernhard Wicht
01:30 - 03:00 pm	Fundamentals of Inductive DC-DC Converters	Bernhard Wicht
03:30 - 05:00 pm	Hybrid Converters	Bernhard Wicht

Wednesday, August 28

08:30 - 10:00 am	Fundamentals of Linear Regulators	Pavan Hanumolu
10:30 - 12:00 am	LED Drivers Design	Pavan Hanumolu
01:30 - 03:00 pm	Digitally Controlled DC-DC Converters	Pavan Hanumolu
03:30 - 05:00 pm	Time-Based Control of DC-DC Converters	Pavan Hanumolu

Thursday, August 29

08:30 - 10:00 am	Interference and PSRR	Michiel Steyaert
10:30 - 12:00 am	Bandgap Voltage References	Michiel Steyaert
01:30 - 05:00 pm	DC-DC: From Discrete To Fully CMOS Integrated	Michiel Steyaert

Friday, August 30

08:30 - 10:00 am	Practical Techniques of Frequency Compensation	Vadim Ivanov
10:30 - 12:00 am	Design of LDO's with Instant Load Regulation & Unconditional Stability	Vadim Ivanov
01:30 - 03:00 pm	Circuit Techniques for Integrated Switching Regulation	Vadim Ivanov
03:30 - 05:00 pm	Nanopower Design Techniques and Efficient Energy Harvesting	Vadim Ivanov
