



PRACTICAL ASPECTS OF MIXED-SIGNAL IC DESIGN

ON-LINE CLASS

AUGUST 31 - SEPTEMBER 11, 2020

WEEK 1		AUG 31 - SEPT 4	10 Modules (1:30hr each), 2 Modules per day		
WEEK 2		SEPT 7-11	10 Modules (1:30hr each), 2 Modules per day		
		Central European Time	Eastern Standard Time	Pacific Standard Time	Singapore Time Zone
<i>DAILY (days 1&2)</i>	Module	CET (Lausanne)	EST (New York)	PST (California)	SGT (Singapore)
Module 1		4:00 - 5:30 pm	10:00 am - 11:30 am	7:00 - 8:30 am	10:00-11:30 pm
Module 2		6:00 - 7:30 pm	12:00 am - 1:30 pm	9:00 - 10:30 am	12:00 pm - 1:30 am
WEEK 1					
Monday, August 31	1	The Analog-Digital Trade-off - The Impact of Technology Scaling			Jan Rabaey
	2	ULP Mixed-Signal Design for IoT and Biomedical Interfaces			Jan Rabaey
Tuesday, Sept 1	1&2	ULP Mixed-Signal Design for IoT and Biomedical Interfaces			Jan Rabaey
		Central European Time	Eastern Standard Time	Pacific Standard Time	Singapore Time Zone
<i>DAILY</i>		CET (Lausanne)	EST (New York)	PST (California)	SGT (Singapore)
Module 1		2:30-4:00 pm	8:30-10:00 am	5:30-7:00 am	8:30-10:00 pm
Module 2		4:30-6:00 pm	10:30 am -12:00 pm	7:30-9:00 am	10:30 pm - 12:00 pm
Wednesday, Sept 2	1	Noise Coupling in Mixed-Mode ICs:			Tim Schmerbeck
	2	Mechanisms, Simulation, Measurement			Tim Schmerbeck
Thursday, Sept 3	1	Design Strategy/Hardware Example			Tim Schmerbeck
	2	Design for (ESD) Robustness in Silicon ICs			Tim Schmerbeck
Friday, Sept 4	1	Noise Calculation and Simulation in SC & CT ICs			Christian Enz
	2	Noise and Offset Reduction Techniques			Christian Enz
WEEK 2					
Monday, Sept 7	1	Offset and CMRR: Random and Systematic			Willy Sansen
	2	Fully-Differential Amplifiers			Willy Sansen
Tuesday, Sept 8	1	Modeling and Simulation, Design Methodology			Pavan Hanumolu
	2	Practical Techniques of Frequency Compensation			Vadim Ivanov
Wednesday, Sept 9	1&2	Matching Impairments in Mixed-Mode ICs			Herman Casier
Thursday, Sept 10	1	Interference Effects: CMRR/PSRR			Michiel Steyaert
	2	Circuit Design for EMC			Michiel Steyaert
Friday, Sept 11	1	Circuit Techniques for OpAmp Speed and Accuracy			Vadim Ivanov
	2	Voltage References			Vadim Ivanov