

## Advanced RF IC Design Live Course @ EPFL, Lausanne, Switzerland

**JUNE 19-23, 2023** 

MONDAY, Ju	ne 19	
08:30 - 10:00 am	RF Fundamentals and Transceivers	Behzad Razavi
10:30 - 12:00 pm	RF Fundamentals and Transceivers (Cnt'd)	Behzad Razavi
01:30 - 03:00 pm	LNA and Mixer Design	Behzad Razavi
03:30 - 05:00 pm	LNA and Mixer Design (Cnt'd)	Behzad Razavi
TUESDAY, Ju	une 20	
08:30 - 10:00 am	Modern Direct-Conversion Receivers	Behzad Razavi
10:30 - 12:00 pm	New Developments in Transceiver Design	Behzad Razavi
01:30 - 03:00 pm	Transistor-Level Design of a 2.4-GHz/5.2-GHz WiFi Receiver	Behzad Razavi
03:30 - 05:00 pm	Case Study of a 6-GHz Receiver for WiFi and LTE	Behzad Razavi
WEDNESDAY	/, June 21	
08:30 - 10:00 am	Millimeter-Wave VCO Design	Behzad Razavi
10:30 - 12:00 pm	Millimeter-Wave VCO Design (Cnt'd)	Behzad Razavi
01:30 - 03:00 pm	mm-Wave CMOS Circuit Design	Patrick Reynaer
03:30 - 05:00 pm	mm-Wave CMOS Circuit Design (Cnt'd)	Patrick Reynaert
THURSDAY,	June 22	
08:30 - 10:00 am	mm-Wave CMOS Circuit Design Examples With Transformers	Patrick Reynaert
10:30 - 12:00 pm	CMOS mm-wave PA Design	Patrick Reynaert
01:30 - 03:00 pm	CMOS mm-wave PA Design (Cnt'd)	Patrick Reynaert
03:30 - 05:00 pm	Common Design-Errors and Layout Mistakes at mm- Wave Frequencies	Patrick Reynaert
FRIDAY, Jun	e 23	
08:30 - 10:00 am	Fundamentals of Beamforming for 5G and SATCOM (1	) Hua Wang
10:30 - 12:00 pm	Fundamentals of Beamforming for 5G and SATCOM (2	2) Hua Wang
01:30 - 03:00 pm	5G mm-Wave Transmitter Array Design Examples	Hua Wang
03:30 - 05:00 pm	5G Digital Power Amplifiers and Transmitters	Hua Wang