MICRO-720	Techniques for Handling Noise and Variability in Analog Circuits							
	Kayal Maher							
Cursus		Sem.	Туре	Language of	English			

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Microsystems and Microelectronics		Opt.	teaching	English	
			Credits	2	
			Session		
			Exam	Written	
			Workload	60h	
			Hours	33	
			Courses	33	
			Number of positions		

Frequency

Every year

Remark

Week 1 : January 18 to 22, 2021 Week 2 : January 25 to 29, 2022

Summary

Fundamentals of Noise in Electronic Devices, Random Mismatch Origins, Noise Analysis in Continuous-Time and Sampled-Data Circuits, Analyzing Mismatch and Yield in Analog Circuits, Noise Cancellation Techniques, Noise Sampling in Switched Capacitor Filters, Offset, CMRR and PSRR.

Content

- 1. Fundamentals of Noise in Electronic Devices
- 2. Random Mismatch Origins
- 3. Noise Analysis in Continuous-Time and Sampled-Data Circuits
- 4. Analyzing Mismatch and Yield in Analog Circuits
- 5. Noise Cancellation Techniques
- 6. Noise Sampling in Switched Capacitor Filters
- 7. Offset, CMRR and PSRR.

Keywords

Analog Circuit, Noise, Electronic Devices, Continuous-Time, Sampled-Data, Switched Capacitor Filter, CMRR and PSRR.

Learning Prerequisites

Required courses Analog circuits design I & II

Resources

Websites

• http://mead.ch/MEADNEW/techniques-for-handling-noise-and-variability-in-analog-circuits/