

# MICRO-720 Techniques for Handling Noise and Variability in Analog Circuits

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Cursus	Sem.	Type
Microsystems and Microelectronics		Obl.

Language of teaching
Credits 2
Session
Exam Written
Workload 60h
Hours 33
Courses 33
Number of positions

## Frequency

Every year

### Remark

Next time in January 2019

### **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.

#### Note

\* Organized by MEAD/EPFL

More informations & registration at:

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

Contact: education@mead.ch

## **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/MEAD/techniques-for-handling-noise-and-variability-in-analog-circuits/