



**MEAD** Education S.A.

# Transistor-Level Analog Design: Theory and Hands-on

**EPFL, LAUSANNE, SWITZERLAND**

**JUNE 23-27, 2014**

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## **MONDAY, June 23**

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8:30-10:00 am	Introduction & MOS Transistors	Klaas Bult
10:30-12:00 am	Single-Stage OpAmps	Klaas Bult
1:30-3:00 pm	Single-Stage OpAmps	Klaas Bult
3:30-5:00 pm	Noise in MOS Transistors	Klaas Bult

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## **TUESDAY, June 24**

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8:30-10:00 am	Distortion	Klaas Bult
10:30-12:00 am	Opamp Towards Maximum GBW	Michiel Steyaert
1:30-5:00 pm	Matching of MOS Transistors in Deep-Submicron	Marcel Pelgrom

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## **WEDNESDAY, June 25**

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8:30-10:00 am	Basic Sub-Circuits	Klaas Bult
10:30-12:00 am	Gain-Boosting & Settling Behaviour	Klaas Bult
1:30-5:00 pm	Layout Considerations in Mixed-Signal IC Design	Marcel Pelgrom

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## **THURSDAY, June 26**

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8:30-10:00 am	Two-Stage Amplifiers	Klaas Bult
10:30-12:00 am	Digitally-Assisted Analog Circuits	Marc Pastre
1:30-3:00 pm	MOS Device Sizing	Maher Kayal
3:30-5:00 pm	LAB SESSION: Basic OTA Design	Maher Kayal + assistants

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## **FRIDAY, June 27**

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8:30-10:00 am	Folded Cascode Design & Offset Compensation	Maher Kayal
10:30-12:00 am	LAB SESSION: Folded Cascode design	Maher Kayal + assistants
1:30-3:00 pm	LAB SESSION: Offset reduction design	Maher Kayal + assistants

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