

Operational Amplifiers: Theory and Design

TU DELFT, DELFT, THE NETHERLANDS

NOVEMBER 9-12, 2015

MONDAY, November 9

8:30 - 9:00 am	Registration / Computer Setup	J.H. Huijsing / B. Gonen
9:00 - 10:15 am	Introduction / Definitions/ Macromodels	J.H. Huijsing
10:15 - 11:15 am	Precision Applications / Dynamic Range	J.H. Huijsing
11:30 - 12:30 am	Hands-on Simulations	B. Gonen
1:30 - 15:00 pm	Input Stages: Offset, Noise, CMRR	R. Hogervorst
3:15 - 4:15 pm	Rail-to-Rail Capability	R. Hogervorst
4:30 - 6:00 pm	Hands-on Simulations / Questions & Answers	B. Gonen / R. Hogervorst

TUESDAY, November 10

9:00 - 10:00 am	Output Stages: Voltage and Current Efficiency	J.H. Huijsing
10:15 - 11:15 am	Class-AB Biasing	J.H. Huijsing
11:30 - 12:30 am	Hands-on Simulations / Questions & Answers	B. Gonen / J.H. Huijsing
1:30 - 3:00 pm	Overall Design, Nine Topologies, Frequency Compensation, Slew-Rate	R.G.H. Eschauzier
3:15 - 4:15 pm	Non-linear Distortion	R.G.H. Eschauzier
4:30 - 6:00 pm	Hands-on Simulations / Questions & Answers	B. Gonen / R.G.H. Eschauzier

WEDNESDAY, November 11

9:00 - 10:00 am	Two-Stage Configurations	J.H. Huijsing
10:15 - 11:15 am	Three-Stage Configurations	J.H. Huijsing
11:30 - 12:30 am	Hands-on Simulations / Questions & Answers	B. Gonen / J.H. Huijsing
1:30 - 3:00 pm	Three-Stage Configurations	K.J. de Langen
3:15 - 4:15 pm	Three-Stage Configurations	K.J. de Langen
4:30 - 6:00 pm	Hands-on Simulations / Questions & Answers	B. Gonen / K.J. de Langen

THURSDAY, November 12

9:00 - 10:00 am	Four-Stage Configurations	J.H. Huijsing
10:15 - 11:15 am	Fully Differential OpAmps	J.H. Huijsing
11:30 - 12:30 am	Hands-on Simulations	B. Gonen
1:30 - 3:00 pm	Instrumentation Amplifiers	J.F. Witte
3:15 - 4:15 pm	Low Offset Amplifiers	J.F. Witte
4:15 - 4:30 pm	Evaluation	J.H. Huijsing
