

Operational Amplifiers: Theory and Design

TU DELFT, DELFT, THE NETHERLANDS
NOVEMBER 6-10, 2017

MONDAY, November 6

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| 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 7

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| 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 | 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 8

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| 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 9

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| 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 / Questions & Answers | B. Gonen |
| 1:30 - 3:00 pm | Dynamic Offset Compensation: Auto-Zeroing | J.F. Witte |
| 3:15 - 4:15 pm | Low Offset Chopper Amplifiers | J.F. Witte |
| 4:15 - 4:30 pm | Hands-on Simulations / Questions & Answers | J.H. Huijsing |

FRIDAY, November 10

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| 9:00 - 10:00 am | Auto-Zero and Chopper Amplifiers Overview | J.H. Huijsing |
| 10:15 - 11:15 am | Capacitive Coupled Amplifiers | J.H. Huijsing |
| 11:30 - 12:30 am | Hands-on Simulations / Questions & Answers | B. Gonen |
| 12:45 - 1:00 pm | Evaluation | J.H. Huijsing |
