Operational Amplifiers: Theory and Design

ON-LINE CLASS

November 2-13, 2026

It is necessary to buy the book "Operational Amplifiers, Theory and Design", Third Edition, Johan Huijsing, 2017 Springer International Publishing, to follow the course.

WEEK 1	**NOVEMBER 2-6**
WEEK 2	**NOVEMBER 9-13**

		Central European Time	Eastern Standard Time	Pacific Standard Time	India Standard Time
		CET (Delft)	**EST (New York)**	**PST (California)**	**IST (India)**
DAILY SCHEDULE		3:00 - 6:30 pm	9:00 am - 12:30 pm	6:00 - 9:30 am	7:30 - 11:00 pm
WEEK 1					
	3:00 - 4:00 pm	Introduction / Definitions / Macromodels			J.F. Witte
November 2	4:15 - 5:15 pm	Precision Applications / Dynamic Range			J.F. Witte
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / J.F. Witte
	3:00 - 4:00 pm	Input Stages: Offset, Noise, CMRR			R. Hogervorst
November 3	4:15 - 5:15 pm	Rail-to-Rail Capability			R. Hogervorst
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / R. Hogervorst
	3:00 - 4:00 pm	Output Stages: Voltage and Current Efficiency			R. Hogervorst
November 4	4:15 - 5:15 pm	Class-AB Biasing			R. Hogervorst
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / R. Hogervorst
	3:00 - 4:00 pm	Frequency Compensation, Slew-Rate			R.G.H. Eschauzier
November 5	4:15 - 5:15 pm	Non-Linear Distortion			R.G.H. Eschauzier
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / R.G.H. Eschauzier
	3:00 - 4:00 pm	Two-Stage Configurations			K.J. de Langen
November 6	4:15 - 5:15 pm	Three-Stage Configurations			K.J. de Langen
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / K.J. de Langen
WEEK 2					
	3:00 - 4:00 pm	Three-Stage Configurations			K.J. de Langen
November 9	4:15 - 5:15 pm	Three-Stage Configurations			K.J. de Langen
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / K.J. de Langen
	3:00 - 4:00 pm	Four-Stage Configurations			K.J. de Langen
November 10	4:15 - 5:15 pm	Fully Differential OpAmps			K.J. de Langen
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / K.J. de Langen
	3:00 - 4:00 pm	Dynamic Offset Compensation Techniques			J.F. Witte
November 11	4:15 - 5:15 pm	Dynamic Offset Compensated Operational CMOS Amplifiers			J.F. Witte
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / J.F. Witte
	3:00 - 4:00 pm	Instrumentation Amplifiers			J.F. Witte
November 12	4:15 - 5:15 pm	Auto-Zero and Chopper Amplifiers Overview			J.F. Witte
	5:30 - 6:30 pm	Hands-on Simulations / Questions & Answers			L.S. Javvaji / J.F. Witte
	3:00 - 4:00 pm	Capacitive - Coupled Amplifiers			Q. Fan
November 14	4:15 - 4:45 pm	Capacitive - Coupled Amplifiers			Q. Fan
	5:00 - 6:00 pm	Evaluation			