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Finite Gain
Dc Offsets
Offset Voltage
Okay Now because the Sign Is Also Random It Doesn't Matter whether You Put this Plus Here or Here or whether You Place this Voltage Source in Series with a Non-Inverting Input or in Series with the Inverting Input It Doesn't Make a Difference because Vo S It Has Could Be Positive Could Be Negative Anyway so the Os Can Be Placed in Series with either Input Right It Doesn't Make any Difference So in Fact When We Are Analyzing Circuits Including the Offset Voltage We Pick the Terminal That's More Convenient for Analysis so We Might Place It in Series with this Guy What Is this with this Guy Depending on What the Circuit Is Doing All Right so It's Important To Remember these about the Offset Voltage
And It Seems to Me That Should Be Here So I'Ll Place the Offset Voltage Here Vo S and Then of Course I Have V In as My Main Input Alright so We Go Ahead and Build the Circuit and We Would Like To See What the Output Contains Well because We Have Two Voltage Sources in Series We Can Just Add Them Up or if You Don't Like You Can Use Superposition so the Total Voltage That I Measure from Here to Ground Is Vo S + V in So Be Out Is the Total Voltage V in + Vo S Times 1 plus R 1 R 2 over R 1 as We Saw Before
So the Total Voltage That I Measure from Here to Ground Is Vo S + V in So Be Out Is the Total Voltage V in + Vo S Times 1 plus R 1 R 2 over R 1 as We Saw before Okay So this Says that in a Non-Inverting Amplifier if We Have an Offset Voltage in the Rpm That Offset Comes Out Amplified Just the Way the Input Signal Is Amplified if the Input Signal Is Amplified by a Factor of 4 the Offset Is Also Amplified by a Factor of 4
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