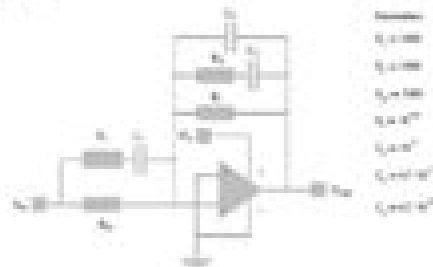


# Amplifier Gain

## Amplifier Gain

Write equations for all parts of the circuit to determine the voltage gain



- $R_1 = 100k$
- $R_2 = 100k$
- $R_3 = 100k$
- $C_1 = 10^{-7}$
- $C_2 = 10^{-7}$
- $C_3 = 10^{-7}$
- $C_4 = 10^{-7}$

Amplifier bandwidth:  $f_{BW} = 10^5$  Hz

$$f_{BW} = \frac{1}{2\pi R_T C_T}$$

$$C_T = C_1 + C_2 + C_3 + C_4 + C_{in} = 10^{-7} + 10^{-7} + 10^{-7} + 10^{-7} + 10^{-7} = 5 \times 10^{-7}$$

$$C_T = C_1 + C_2 + C_3 + C_4 + C_{in} = 10^{-7} + 10^{-7} + 10^{-7} + 10^{-7} + 10^{-7} = 5 \times 10^{-7}$$

$$f_{BW} = \frac{1}{2\pi R_T C_T} = \frac{1}{2\pi \times 100k \times 5 \times 10^{-7}} = 1.59 \times 10^5$$

$$V_{out} = -\frac{R_2}{R_1} V_{in}$$

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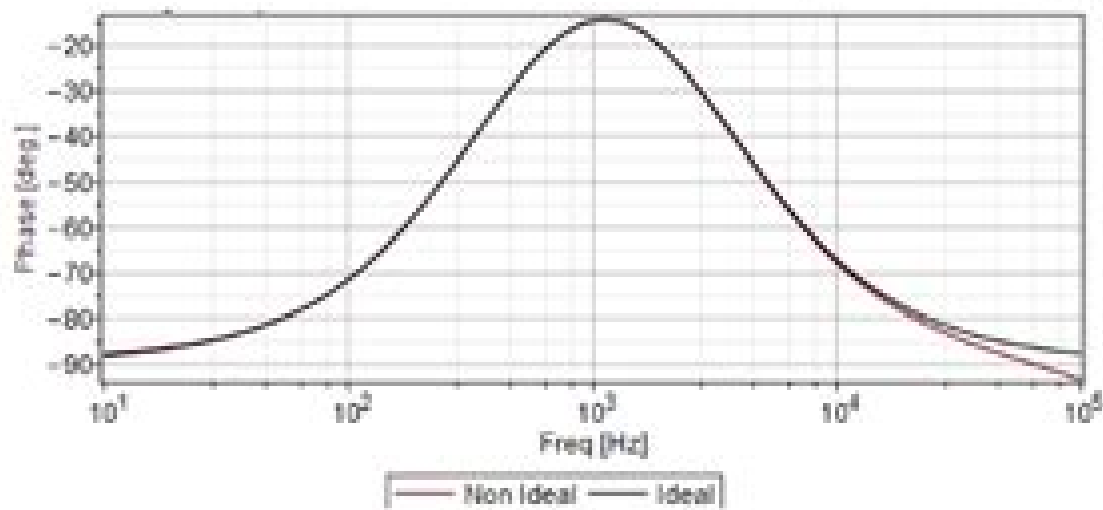
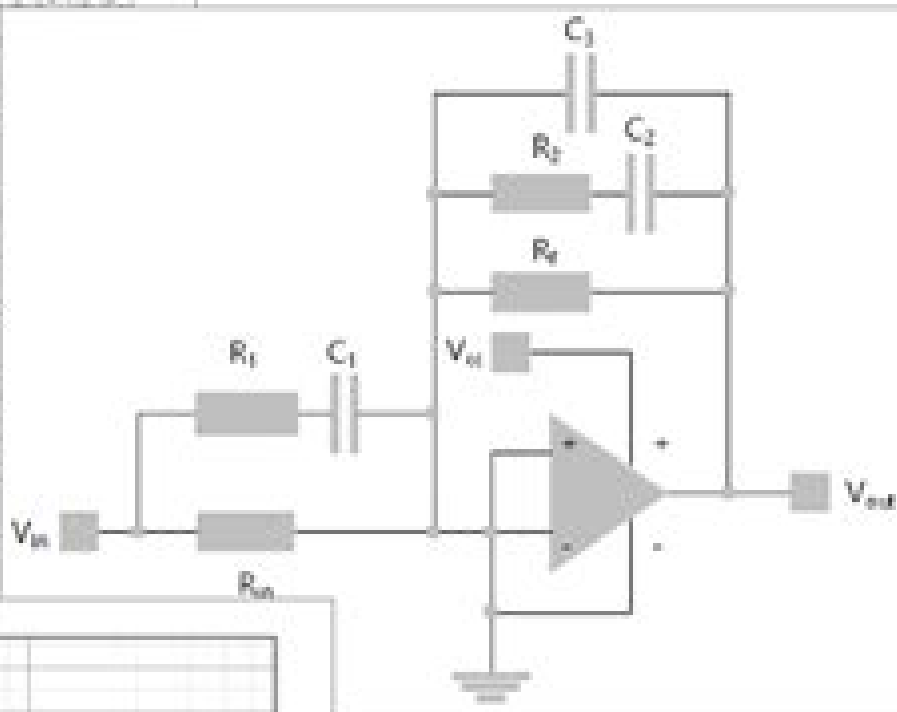
$$V_{out} = -\frac{R_2}{R_1} V_{in}$$

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$$V_{out} = -\frac{R_2}{R_1} V_{in}$$

Write the frequency response



# Maple Tutorial For Electrical Engineering

**JS Bruner**



## **Maple Tutorial For Electrical Engineering:**

Solving Problems in Scientific Computing Using Maple and MATLAB® Walter Gander, Jiri Hrebicek, 2011-06-27 From the reviews An excellent reference on undergraduate mathematical computing American Mathematical Monthly the book is worth buying if you want guidance in applying Maple and MATLAB to problems in the workplace Computing Reviews The presentation is unique and extremely interesting I was thrilled to read this text and to learn the powerful problem solving skills presented by these authors I recommend the text highly as a learning experience not only to engineering students but also to anyone interested in computation Mathematics of Computation For this edition four chapters have been added Some of the chapters of the previous editions were revised using new possibilities offered by Maple and MATLAB Some interesting web pages related to Maple and MATLAB have been added in an appendix Moreover the editors have created a web page [www.SolvingProblems.inf.ethz.ch](http://www.SolvingProblems.inf.ethz.ch) where all Maple and MATLAB programs are available **Electrical Engineering** Allan R. Hambley, 2011 For undergraduate introductory or survey courses in electrical engineering ELECTRICAL ENGINEERING PRINCIPLES AND APPLICATIONS 5 e helps students learn electrical engineering fundamentals with minimal frustration Its goals are to present basic concepts in a general setting to show students how the principles of electrical engineering apply to specific problems in their own fields and to enhance the overall learning process Circuit analysis digital systems electronics and electromechanics are covered A wide variety of pedagogical features stimulate student interest and engender awareness of the material s relevance to their chosen profession *PC Mag* ,1991-12-17 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **Symbolic Analysis of Analog Circuits: Techniques and Applications** Lawrence P. Huelsman, Georges Gielen, 2012-12-06 This book brings together important contributions and state of the art research results in the rapidly advancing area of symbolic analysis of analog circuits It is also of interest to those working in analog CAD The book is an excellent reference providing insights into some of the most important issues in the symbolic analysis of analog circuits **The Bulletin of Mathematics Books** ,1992

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