

# Essentials of Electrical and Computer Engineering

J. David Irwin | David V. Kerns, Jr.



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# Essentials Of Electrical And Computer Engineering

**Christian Drosten**



## **Essentials Of Electrical And Computer Engineering:**

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electric circuits To present Tellegen's theorem and describe its usefulness in circuit analysis Essentials of Electrical and Computer Engineering Pearson New International Edition David V. Kerns, Jr., J. David Irwin, 2013-10-11 Essentials of Electrical and Computer Engineering Kerns, 2005-02 With Its Clear Presentation Of Fundamentals In The Context Of Various Applications From All Engineering Fields This Text By Proven Authors Represents The Best Balanced General Introduction To The Field Available It Introduces The Latest Technologies Such As Mems Microelectromechanical Systems To Illustrate How Modern Technologies Are Interdisciplinary

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Time Fourier Transform Discrete Fourier Transforms Laplace and z transforms emphasizing their relationships and motivations The continuous and discrete time domains are neatly connected and the students are shown step by step how to use the fft function using simple examples Incorporating learning objectives and problems and supported with simple Matlab codes to illustrate concepts the text presents to students the foundations to allow the reader to pursue more advanced topics in later courses Developed from lecture notes already tested with more than 600 students over six years

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This book with its versatile approach includes thorough coverage of statics with an emphasis on the dynamics of engineering electromagnetics It integrates practical applications numerical details and completely covers all relevant principles Topics include vectors and fields Maxwell s Equations fields and waves electromagnetic potentials devices circuits and systems and transmission line essentials for digital electronics The second part of the book covers communications guided wave principles electronics and photonics and radiation and antennae A valuable resource for computer engineering and electrical engineering professionals

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web overall the experiment succeeded in showing that temperature and pressure for an ideal gas at constant volume and mass follow the relation of the ideal gas equation differences existed in the experimental graph of temperature versus and pressure and the theoretical curve of temperature versus pressure

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web we then changed the volume between 5ml and 20ml and recorded the pressure at each this part of the lab showed that volume and pressure are inversely proportionate as the pressure would decrease if the volume was increased part b of the experiment looked at the relationship between temperature and pressure

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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1/267 per degree in 1874 Victor Regnault obtained better experimental results showing this number to be 1/273 and concluded that the pressure would approach zero at 1/273 degrees C

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web the volume of 1.00 mol of any gas at STP standard temperature 273.15 K and pressure 1 atm is measured to be 22.414 L we can substitute 101.325 kPa for pressure 22.414 L for volume and 273.15 K for temperature into the ideal gas equation and solve for R

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web chemists sometimes make comparisons against a standard temperature and pressure stp for reporting properties of gases 273 15 k and 1 atm 101 325 kpa 1 at stp one mole of an ideal gas has a volume of about 22 4 l this is referred to as the standard molar volume figure 9 18

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