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# Learn Python Programming

A Comprehensive, Up-to-Date, and Definitive Guide to  
Learning Python



**Fourth Edition**



**Fabrizio Romano  
Heinrich Kruger**



# Python Programming Manual Ebook

**Computer Programming Academy**



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**Computer Programming with Python and Multisim(tm)** James Fiore,2016-09-13 Designed specifically as an introduction to computer programming for electrical engineers and technicians this manual focuses on the electrical applications of the Python programming language Python is an easy to use yet powerful modern programming language It runs on multiple platforms and is free to download and use on your own computer Topics include basic input and output commands conditional statements looping constructs random numbers using tuples accessing files and user defined functions This manual also includes an introduction to the popular Multisim tm circuit simulator program which offers schematic capture along with a host of simulation functions and virtual measurement instruments This is the print version of the on line OER

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analysis that are valuable for tourism researchers and analysts Updates to the second edition include a new chapter on Big Data consideration of data screening and cleaning the use of similarity and diversity indexes for comparing samples observations about the partial least squares PLS approach to path modelling a new section on multi group structural equation modelling a new section on common method variance and its treatment revised and updated section on software fully updated references and examples

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 $2 \text{ CO}_2(\text{g}) \rightarrow 2 \text{ C}(\text{s}) + 2 \text{ O}_2(\text{g}) \quad \Delta h = 94.5 \text{ kJ}$   
 $\text{H}_2(\text{g}) + \frac{1}{2} \text{ O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{g}) \quad \Delta h = 71.2 \text{ kJ}$   
 $\text{C}_2\text{H}_6(\text{g}) \rightarrow 2 \text{ C}(\text{s}) + 3 \text{ H}_2(\text{g}) \quad \Delta h = 283 \text{ kJ}$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 2 \text{ H}_2\text{O}(\text{l}) \quad \Delta h = 1411 \text{ kJ/mole}$   
 $\text{C}_2\text{H}_6(\text{g}) + 7/2 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{l}) \quad \Delta h = 1560 \text{ kJ/mole}$   
 $\text{H}_2(\text{g}) + 1/2 \text{ O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l}) \quad \Delta h = 285 \text{ kJ/mole}$

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web thus for reaction 9 2 in which 1 mole of h<sub>3</sub>o and 1 mole of oh combine to form 2 moles of h<sub>2</sub>o h 55 8 kj as shown note that the enthalpy change h h<sub>products</sub> h<sub>reactants</sub> is positive if heat is absorbed that is if h<sub>products</sub>

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