



Functional Decomposition: " Breaking Things Down Into Their Fundamental Components "

By Edited by Paul F. Kiskak

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Functional decomposition refers broadly to the process of resolving a functional relationship into its constituent parts in such a way that the original function can be reconstructed (i.e., recomposed) from those parts by function composition. In general, this process of decomposition is undertaken either for the purpose of gaining insight into the identity of the constituent components (which may reflect individual physical processes of interest, for example), or for the purpose of obtaining a compressed representation of the global function, a task which is feasible only when the constituent processes possess a certain level of modularity (i.e., independence or non-interaction). Interactions between the components are critical to the function of the collection. All interactions may not be observable, but possibly deduced through repetitive perception, synthesis, validation and verification of composite behavior. This book is designed to be a reference and provide an overview of the topic and give the reader a structured knowledge to familiarize yourself with the topic at the most affordable price possible. The accuracy and knowledge is of an international viewpoint as the edited articles represent the inputs of many knowledgeable individuals and some of the most current knowledge on the topic, based on the date of publication.

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Functional Decomposition: " Breaking Things Down Into Their Fundamental Components " By Edited by Paul F. Kisak Bibliography

- Sales Rank: #2015225 in Books
- Published on: 2015-10-05
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .58" w x 6.00" l, .76 pounds
- Binding: Paperback
- 254 pages

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Editorial Review

About the Author

The editor has degrees in Engineering Physics & Nuclear Engineering from the University of Michigan and is an Engineer & Former Intelligence Officer for the CIA & US Intelligence Community and was President of an award-winning Defense Contracting Company. He has authored several books, edited numerous books and has written over 75 Technical, Classified & Unclassified papers, Articles & Essays. He has also been a Contributing Author for The International Encyclopedia on Intelligence and Counter-Intelligence and written several award-winning software manuals that have been sold in more than a dozen countries. He has also appeared in Marquis "Who's Who in the World" & "Who's Who in Science & Engineering" and continues to edit and write.

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