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# Approximation Algorithms By Vijay V Vazirani

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**May 27th, 2020 - an algorithm with approximation ratio  $k$  is called a  $k$  approximation algorithm both algorithms above would be called 2 approximation algorithms when the approximation ratio is close to 1 it is often more useful to look at the approximation error which is defined as the approximation ratio minus 1 so an algorithm that always got within  $1 + \epsilon$**

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**May 25th, 2020 - 3.4.1 local search 3.6.3.4.2 the  $k$  means method'**

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**May 25th, 2020 - approximation schemes approximation scheme an algorithm that for every  $\epsilon$  gives an  $(1 + \epsilon)$  approximation a problem is fully approximable if it has a polynomial time approximation scheme example see a version knapsack below it is partly approximable if there is a lower bound  $\epsilon_{min} > 0$  on the achievable approximation ratio"approximation algorithms guide books**

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**May 21st, 2020 - an excellent source of information for a young and exciting research field that of devising approximation algorithms for numerous np hard problems is provided in this book the author has conducted premium quality research in various topics and during the past ten years has advanced the field of approximation algorithms'**

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