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find critical points of this three-dimensional

solve this as a system of simultaneous equations

add  $x$  to both sides

find corresponding values of  $x$  for both of these  $y$  values

evaluate these critical points

evaluate this second-order partial derivative at the point

look at the definition of the second derivative test

using the second derivative test to evaluate

subtract the mixed second order partial derivative

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- Discusses different types of costs such as average cost, recurring cost, and life cycle cost.
- Deals with different types of cost estimating models, index numbers and capital allowance.
- Covers the basics of nondeterministic decision making.
- Describes the meaning of cash flows with probability distributions and decision making, and selection of alternatives using simulation.
- Discusses the basic concepts of Accounting.

This book, which is profusely illustrated with worked-out examples and a number of diagrams and tables, should prove extremely useful not only as a text but also as a reference for those offering courses in such areas as Project Management, Production Management, and Financial Management.

#### Principles of Engineering Economy

Significant progress has been made in the development of neural prostheses to restore human functions and improve the quality of human life. Biomedical engineers and neuroscientists around the world are working to improve design and performance of existing devices and to develop novel devices for artificial vision, artificial limbs, and brain-machine interfaces. This book, *Implantable Neural Prostheses 1: Devices and Applications*, is part one of a two-book series and describes state-of-the-art advances in techniques associated with implantable neural prosthetic devices and their applications. Devices covered include sensory prosthetic devices, such as visual implants, cochlear implants, auditory midbrain implants, and spinal cord stimulators. Motor prosthetic devices, such as deep brain stimulators, Bion microstimulators, the brain control and sensing interface, and cardiac electro-stimulation devices are also included. Progress in magnetic stimulation that may offer a non-invasive approach to prosthetic devices is introduced. Regulatory approval of implantable medical devices in the United States and Europe is also discussed.

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### Engineering Economy

"Who rules in Eastern Europe?" became a fundamental question for western researchers and other observers after communist regimes were established in the region, and it gained further importance as state socialism expanded into Central Europe after the Second World War. A political order which, according to Leninist theory of the state and to subsequent Stalinist political practice, was primarily a highly centralised and repressive power organisation, directed, as if it were natural, researchers attention towards the highest echelon of office holders in party and state. Extreme centralisation of power in these regimes was consequently linked to an elitist approach to analysing them from a distant viewpoint. It is one of the many paradoxes of state socialism, that a social and political order which presumptuously claimed to be the final destination of historical development and to be based on deterministic laws of social evolution, which claimed an egalitarian nature and denied the significance of the individual, was perceived through the idiosyncrasies, rivalries and personal traits of its rulers. The largest part of these societies remained in grey obscurity, only occasionally revealing bits of valid information about a social life distant from the centres of power. It is debatable whether this top-headedness of western research into communist societies created a completely distorted picture of reality, however, it certainly contributed to an overestimation of the stability of these regimes, an underestimation of their factual diversity and a misjudgement of the extent of conflicts and cleavages dividing them.

### System Engineering Management

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