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*Optimization in its broadest sense can be applied to solve any engineering problem, e.g. •
design of aircraft for minimum weight; • optimal (minimum time) trajectories for space
missions; • minimum weight design of structures for earthquake; • optimal design of electric
networks; • optimal production planning, resources allocation, scheduling;*

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Optimization using Calculus. Stationary points: Functions of Single and Two Variables.

*Convexity and Concavity of Functions of One and Two Variables. Optimization of Functions of
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Lecture Notes Optimization I

1.2 Classification of Optimization Problems Optimization is a key enabling tool for decision making in chemical engineering. It has evolved from a methodology of academic interest into a technology that continues to significant impact in engineering research and practice. Optimization algorithms form the core

Chapter 1 Introduction to Process Optimization

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An optimization model seeks to find values of the decision variables that optimize (maximize or minimize) an objective function among the set of all values for the decision variables that satisfy the given constraints. Two Mines Example The Two Mines Company own two different mines that produce an ore which, after being crushed, is graded

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