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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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#### Lecture Notes Optimization I

1.2 Classi?cation of Optimization Problems Optimization is a key enabling tool for decision making in chemical engineering. It has evolved from a methodology of academic  $\frac{1}{Page}$  4/8

interest into a technology that continues to sig-ni?cant impact in engineering research and practice. Optimization algorithms form the core

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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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