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optimum design problem formulation, basic concepts that characterize an optimum design, basic concepts of numerical methods for optimization, and simple but illustrative examples of optimum design. In addition, some exposure to the use of optimization software would be quite beneficial.

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Additional info for Introduction to optimum design. Sample text. 5. Another way is as follows: IF $\sigma > 0$ THEN $\sigma = \sigma$ ELSE $\sigma = -\sigma$ Since the sign of the stress does not change with design, if the

member is in compression, it remains in compression throughout the optimization process.

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INTRODUCTION TO OPTIMAL DESIGN: PROBLEMS, THEORY AND NUMERICS

3 Objective Understand optimization approaches to engineering design. Study the numerical optimization techniques for engineering design. Practice the systematic process on a semester-long project.

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