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Design optimization is an engineering design methodology using a mathematical formulation of a design problem to support selection of the optimal design among many alternatives. ... Johnson, Ray C. Mechanical Design Synthesis With Optimization Applications. New York: Van Nostrand Reinhold Co, 1971.

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Classifications Dewey Decimal Class 621.8/15 Library of Congress TJ230 .J658 1978 The Physical Object Pagination xix, 448 p. ; Number of pages 448 ID Numbers Open Library OL4543701M ISBN 10 0882756125 LC Control Number 77010974 Library Thing

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