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Nota di contenuto	Modern design and optimization -- Constrained design space search -- Direct search methods for locating the optimum of a design problem with a single objective function -- Guided random search and network techniques -- Optimizing multiple objective function problems -- Sensitivity analysis -- Multi-disciplinary design and optimization architectures -- Knowledge based engineering, KBE -- Uncertainty-based multidisciplinary design optimization -- Ways and means for control and reduction of the optimization computational cost and elapsed time.