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Titolo	Metaheuristics: Outlines, MATLAB Codes and Examples // by Ali Kaveh, Taha Bakhshpoori
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ISBN	3-030-04067-4
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (192 pages)
Disciplina	006.3
Soggetti	Applied mathematics Engineering mathematics Mathematical optimization Mechanical engineering Building construction Mathematical and Computational Engineering Optimization Mechanical Engineering Solid Construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Preliminaries and frameworks -- Artificial bee colony algorithm -- Big bang big crunch algorithm -- Teaching Learning Based Optimization Algorithm -- Imperialist Competitive Algorithm -- Cuckoo search -- Charged system search Algorithm -- Ray Optimization Algorithm -- Colliding Bodies Optimization Algorithm -- Tug-of-war optimization Algorithm -- Water Evaporation Optimization Algorithm -- Vibrating particles system algorithm -- Cyclical parthenogenesis algorithm -- Thermal exchange optimizat on algorithm.
Sommario/riassunto	The book presents eight well-known and often used algorithms besides nine newly developed algorithms by the first author and his students in a practical implementation framework. Matlab codes and some benchmark structural optimization problems are provided. The aim is to provide an efficient context for experienced researchers or readers

not familiar with theory, applications and computational developments of the considered metaheuristics. The information will also be of interest to readers interested in application of metaheuristics for hard optimization, comparing conceptually different metaheuristics and designing new metaheuristics.
