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The manufacturing cell design problem aims at organizing a manufacturing plant in cells that contain
machines processing parts from a same family for a given product. The purpose is to minimize the
flow of parts among cells so as to increase productivity while reducing costs. This paper focuses on
comparing metaheuristics and constraint programming -from a modeling standpoint- when used to
solve this problem. © Springer International Publishing Switzerland 2014.
Constraint Programming
Manufacturing Cell Design
Metaheuristics
Computer programming
Constraint theory
Flexible manufacturing systems
Heuristic algorithms
Product design
Cell design
Constraint programming
Manufacturing plant
Meta heuristics
Reducing costs
Problem solving

Modeling Manufacturing Cell Design Problems: CP vs. MH