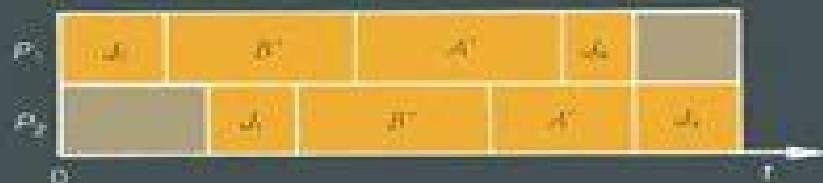


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# Scheduling in Computer and Manufacturing Systems



Second, Revised Edition



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# Scheduling In Computer And Manufacturing Systems

**Nand K. Jha**



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**Scheduling in Computer and Manufacturing Systems** Jacek Blazewicz, Klaus Ecker, Günter Schmidt, 1992-11-10

**Scheduling in Computer and Manufacturing Systems** Jacek Blazewicz, Klaus H. Ecker, Günter Schmidt, Jan Weglarz, 1994-07-12 A theoretical and application oriented analysis of deterministic scheduling problems arising in computer and manufacturing environments The important classical results are surveyed with particular attention paid to single processor scheduling along with general models such as resource constrained scheduling flexible flow shops dynamic job shops and special flexible manufacturing systems Polynomial and exponential time optimization algorithms as well as approximation and heuristic ones are presented using a Pascal like notation before being discussed in the light of particular problems Basic concepts from scheduling theory and related fields are described to assist less advanced readers

**Scheduling in Computer and Manufacturing Systems** Jacek Błażewicz, 2000

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**Special issue Scheduling in computer and manufacturing systems** ,1999

**Scheduling Computer and Manufacturing Processes** Jacek Blazewicz, Klaus H. Ecker, Erwin Pesch, Günter

Schmidt, Jan Weglarz, 2013-06-29 Let us first describe the purpose of this book starting with the explanation of its title In general scheduling problems can be understood very broadly as the problems of allocating resources over time to perform a set of tasks being parts of some processes among which computational and manufacturing ones are most important Tasks individually compete for resources which can be of a very different nature e g manpower money processors machines energy tools The same is true for task characteristics e g ready times due dates relative urgency weights functions describing task processing in relation to allotted resources Moreover a structure of a set of tasks reflecting precedence constraints among them can be defined in different ways In addition different criteria which measure the quality of the performance of a set of tasks can be taken into account It is easy to imagine that scheduling problems understood so generally appear almost everywhere in real world situations Of course there are many aspects concerning approaches for modeling and solving these problems which are of general methodological importance On the other hand however some classes of scheduling problems have their own specificity which should be taken into account Since it is rather impossible to treat all these classes with the same attention in a framework of one book some constraints must be put on the subject area considered In the case of this book these constraints are as follows Scheduling in Computer and Manufacturing Systems Jacek Błażewicz, 1997

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