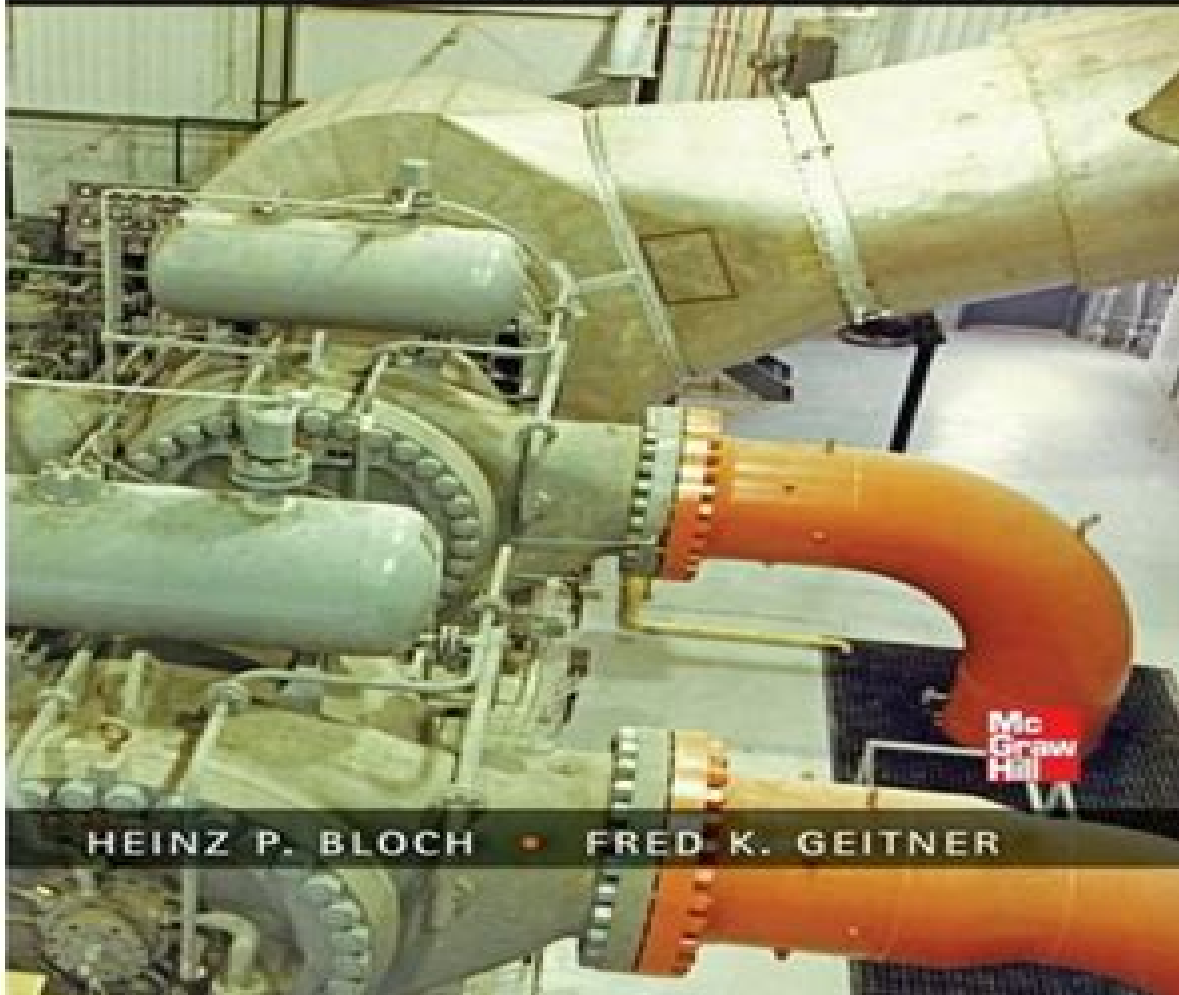


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**Javier Faulin,Angel A. Juan,Sebastián
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The Reliability, Availability and Productiveness of Systems D.J. Sherwin, A. Bossche, 2012-12-06 This book is about the measurement and prediction of the reliability behaviour of systems of physical items It is not specifically concerned with human factors with safety analysis as such although some of the techniques discussed are adaptable to these purposes A machine or an electronic circuit exemplifies a system Each machine or circuit may also be treated as an item in a larger system However this does not reduce it suddenly to basic component status it remains complex and can only be treated as unitary under definable restrictions In particular the effects of maintenance and component renewal must be considered most carefully Previous books on system reliability have concentrated on one or two only of the six principal techniques available to the analyst These are 1 probability theory 2 distributional statistics 3 markov methods matrix algebra 4 fault and event trees Boolean logic 5 theory of renewal processes 6 directional graph theory di graphs This book relates these methods to one another and to their applications The authors feel that previous books which concentrated upon one technique and the contortions necessary to use it in every possible

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