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# Solution Manual Fault Tolerant Systems Koren

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Solution Manual For Fault Tolerant Systems

Fault-Tolerant Systems by Koren and Krishna

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Fault tolerance is the property that enables a system to continue operating properly in the event of the failure of (or one or more faults within) some of its components. If its operating quality decreases at all, the decrease is proportional to the severity of the failure, as compared to a naively designed system, in which even a small failure can cause total breakdown.

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Fault-tolerant systems are able to deliver these levels of availability, because they can “tolerate” or withstand both hardware and software “faults” or failures. They typically do this by either proactively monitoring and preventing critical systems from failing in the first place, or by completely mitigating the risk of a catastrophic component or system failure.

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Fault tolerance is an essential methodology for digital systems, particularly for those that serve applications where failure has safety implications or where interruption of operations imposes serious financial penalties. There is no single fault tolerance technique that suits or is optimal in all circumstances.

### **Solutions to Chapter 2 Exercises**

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