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**Fault-Tolerant  
Design: Elena  
Dubrova:  
9781461421122 ...**

p. 15 - Design of Fault  
Tolerant Systems -  
Elena Dubrova, ESDlab  
Fault tolerance fault-  
tolerance is the ability  
of a system to continue  
performing its function  
in spite of faults broken  
connection hardware  
bug in program

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Systems - Elena

Dubrova, ESDlab Easily

testable system

**CSCE 5760: Design  
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serves as an

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tolerance, intended for  
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need of an overview of the field. Readers will develop skills in modeling and evaluating fault-tolerant architectures in terms of reliability, availability and safety.

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While typical solutions focus on fault tolerance (and specifically, exception handling) during the design and

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implementation phases  
of the software life-  
cycle (e.g., Java and  
Windows NT exception

...

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understanding of fault tolerant computers, including both the theory of how to design and evaluate them and the practical knowledge of achieving fault-tolerance in electronic, communication and software systems. Coverage includes fault-tolerance techniques through hardware, software, information and time redundancy.

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**Koren D.Sc.**

**Electrical ...**

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DESIGN: AN

INTRODUCTION ELENA  
DUBROVA ... fault-

tolerant system should  
be able to handle faults  
in individual hardware

or ... aim of fault-  
tolerant design is to  
minimize the

probability of failures,  
whether those failures  
simply annoy the

customers or result in

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**Fault-Tolerant  
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The ultimate goal of fault tolerance is the development of a dependable system. In a broad term, dependability is the ability of a system to deliver its intended level of service to its users [16].

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Elena Dubrova Fault-Tolerant Design. Elena Dubrova KTH Royal Institute of Technology Krista Sweden ... the design of fault-tolerant hardware systems, such as triple modular redundancy, standby redundancy, and self-purging redundancy and evaluates their effect on ... Solutions to problems and Power-

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**DESIGN: AN  
INTRODUCTION**

Elena Dubrova Fault-Tolerant Design 123.  
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Royal Institute of  
Technology ... Chapter  
7 describes the main  
approaches for the  
design of fault-tolerant  
software systems,  
including checkpoint  
and restart, recovery  
blocks, ... and  
problems to reinforce  
the material learned.  
Solutions to problems

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Fault Tolerance HW

#1. Take a look at the  
solutions I will quickly  
summarize how to  
approach the problems  
2.1. We are told that  
the system failed  
between 4 and 8 years.

... p. 27 - Design of

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- Elena Dubrova,

ESDlab Single-  
component system, no  
repair • Only two states

### **Fault-Tolerant Design**

Fault-tolerant design's advantages are obvious, while many of its disadvantages are not: Interference with fault detection in the same component. To continue the above passenger vehicle



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example, with either of the fault-tolerant systems it may not be obvious to the driver when a tire has been punctured.

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Fault Tolerant Systems  
Elena Troubitsyna,  
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Kashif.Javed}@abo.fi

Abstract—The

development of modern distributed software systems poses a significant engineering challenge.

The system architecture should exhibit plasticity and high ...