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1 Introduction 3 2 Terminology 4 3 Fault-Tolerance Techniques 5

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**Basic fault tolerant software techniques - GeeksforGeeks**  
Fault Tolerant Control System (FTCS)

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can be classified into passive and active. Active FTCS is mainly composed of two integrated processes: the first is a Fault Detection and Isolation (FDI) scheme which monitors the performance of a system, detect the occurrence of a fault, and isolate the faulty component.

## **Fault Tolerant Control - an overview**

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Prob<sub>f</sub>OR gate is fault-free  
Prob<sub>f</sub>At least 1 of the AND gates is stuck-at-1  
 $g = p_1 + (1-p_0-p_1)[1-(1-p_1)^3]$ . The probability that the output of the voter will be stuck-at-0 is  
Prob<sub>f</sub>X is stuck-at-0 if the inputs are correct  
 $g = \text{Prob}_{f\text{OR gate stuck-at-0}} + \text{Prob}_{f\text{OR gate is fault-free}}$   
Prob<sub>f</sub>All AND gates are stuck-at-0  
 $g = p_0$

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