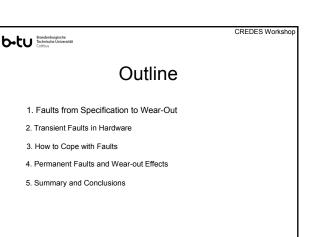
b-tu Brandenburgische Technische Universität Cottbus

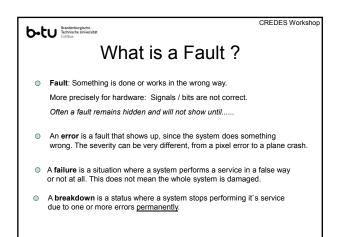
## Fault Effects Affecting SoCs and Embedded Processor-Based Systems

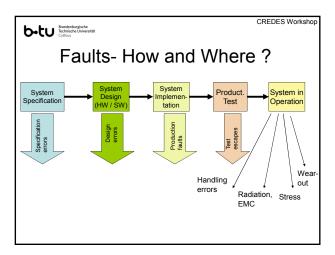
CREDES Workshop

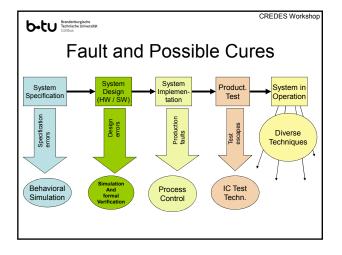
H. T. Vierhaus BTU Cottbus September 2010

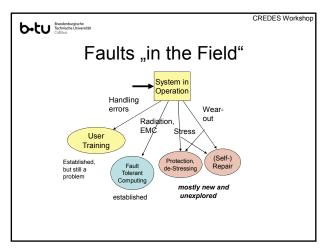
presented by M. Schölzel

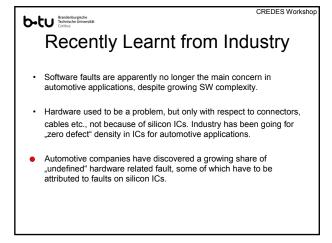


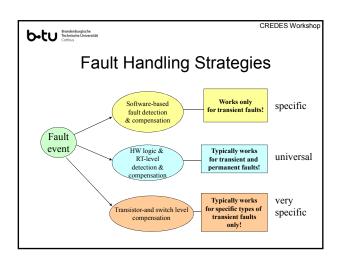


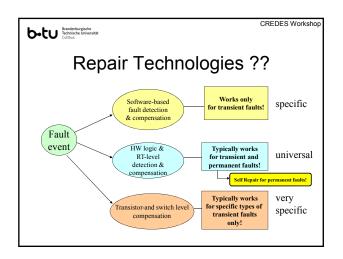


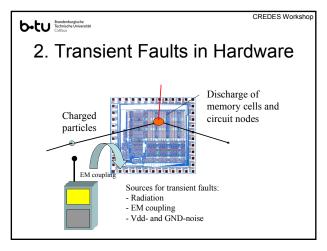


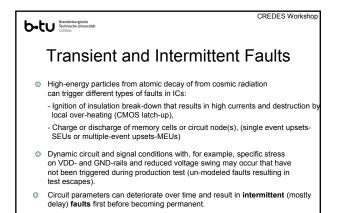


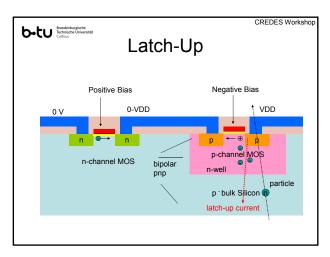


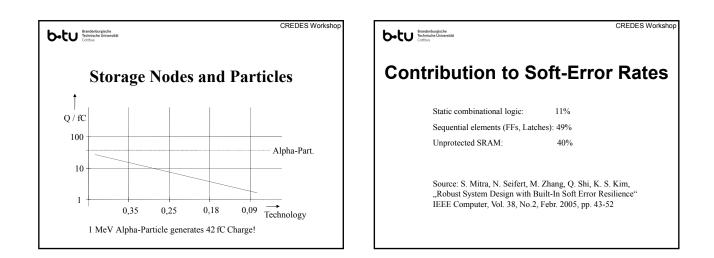


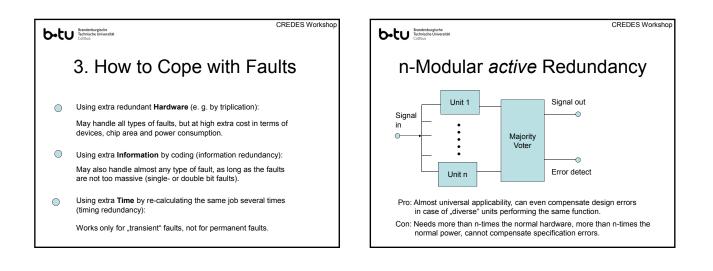


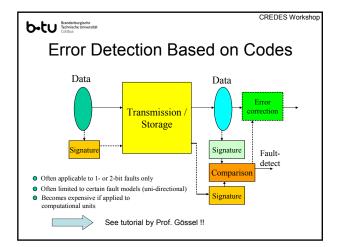


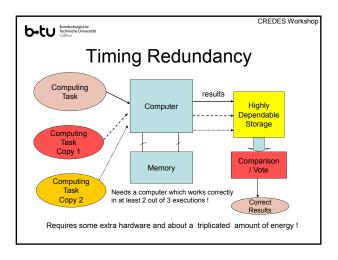




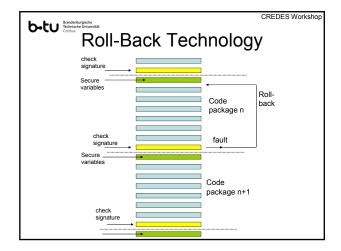


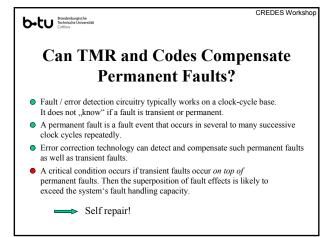


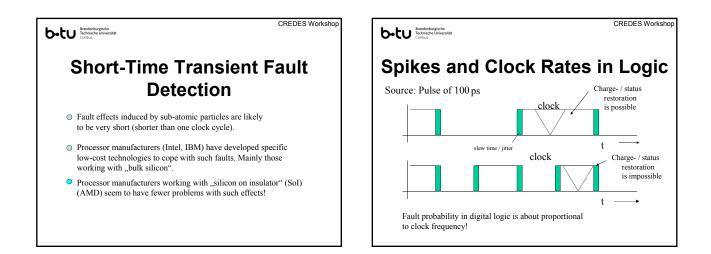


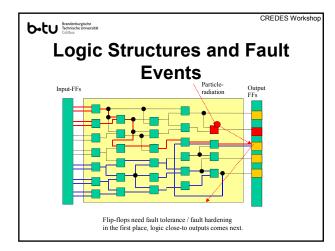


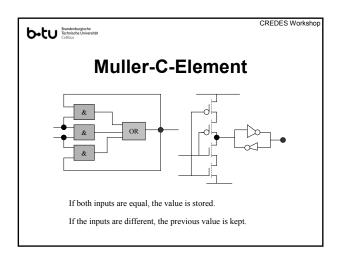
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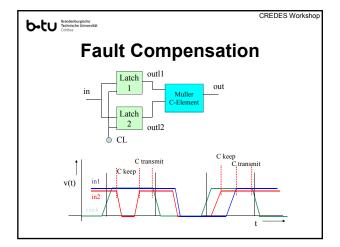


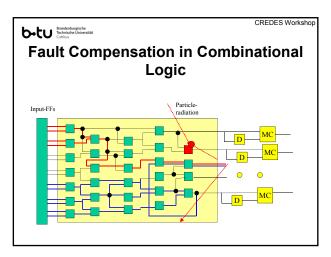


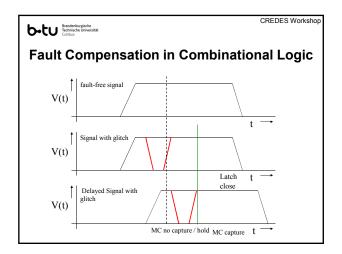


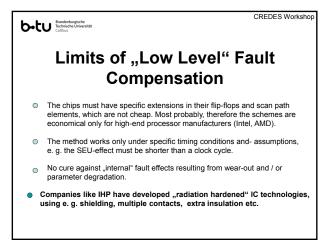


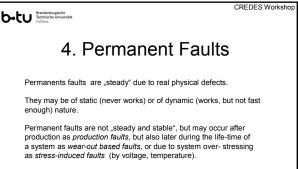




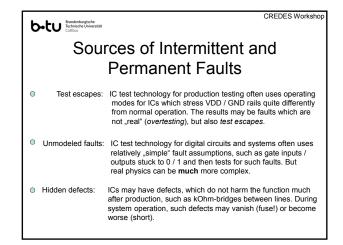


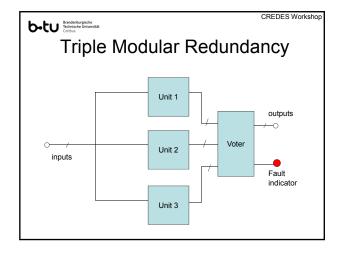


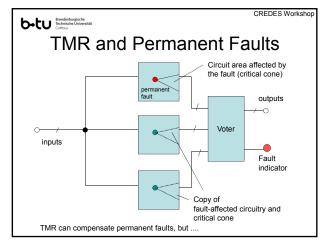


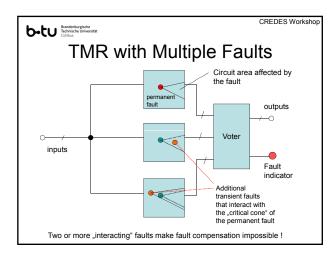


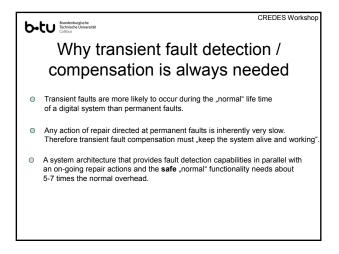
Permanent faults cannot be compensated by redundancy in time, since they will occur also in repeated operations on the same hardware.

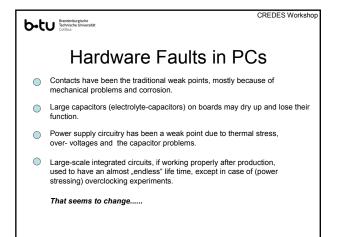


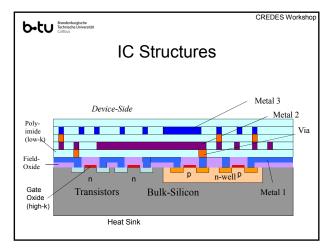


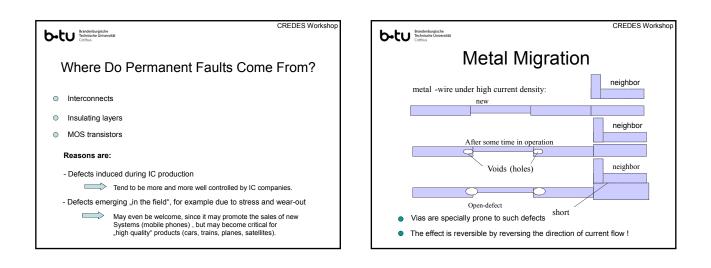


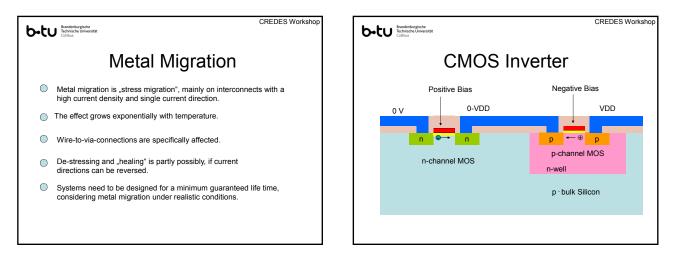


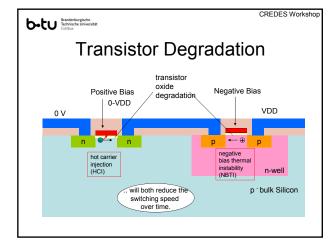


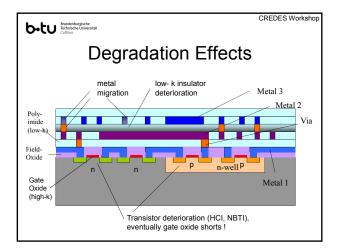


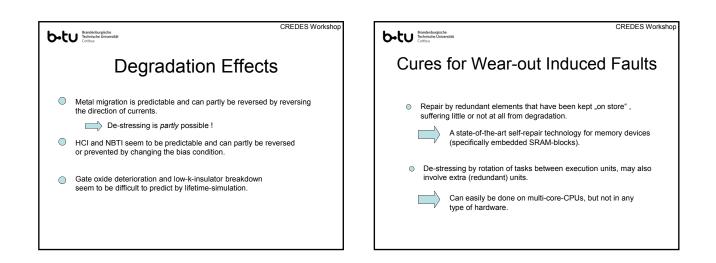


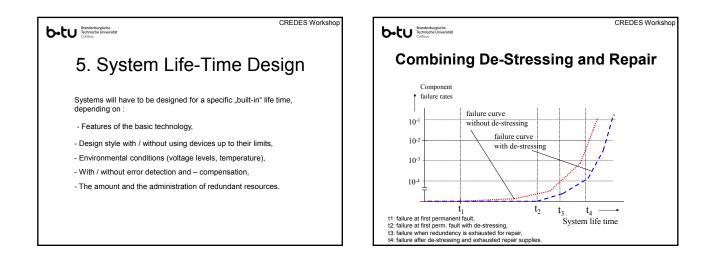


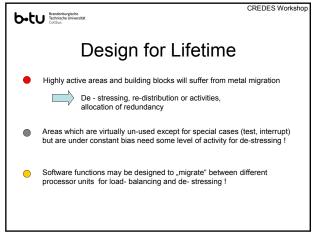


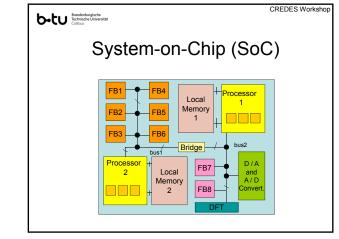


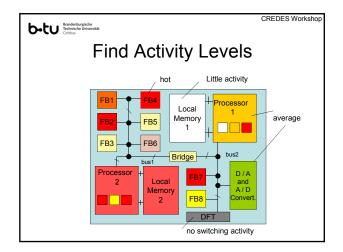


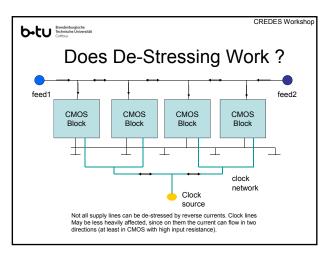




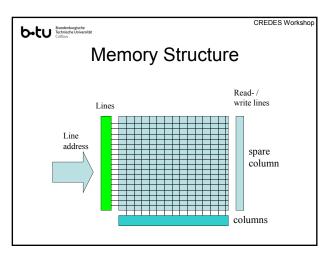


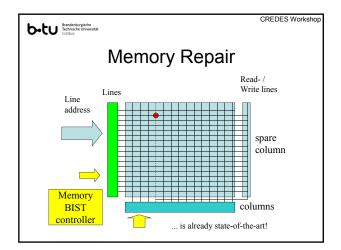


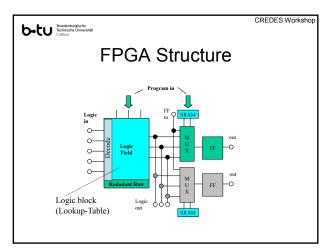


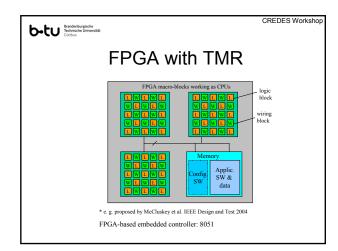


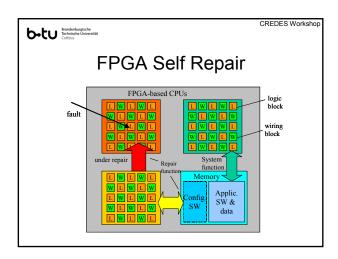


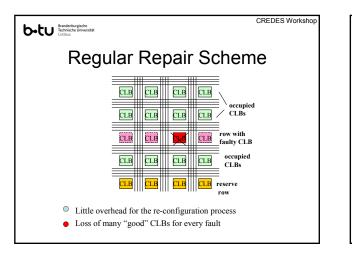


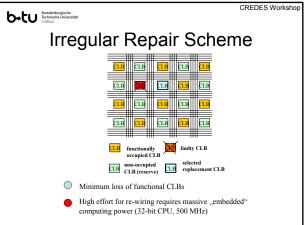


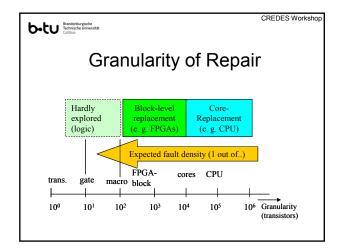


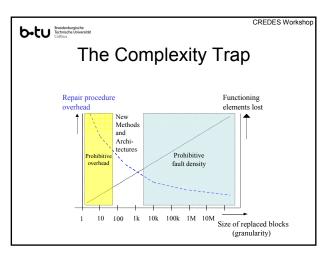


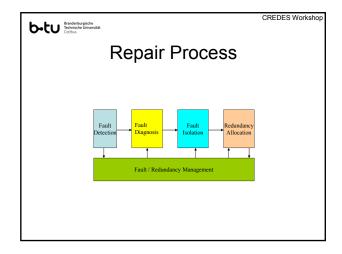


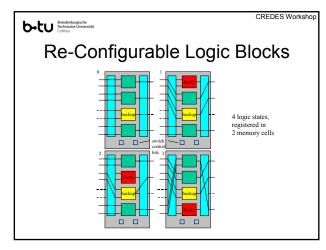


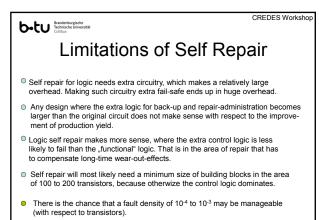












And there are still critical "single points of failure" such as switches.

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