CMMI RAMS extension based on CENELEC railway standard p. 1
The importance of single-source engineering of emergency and process shutdown systems p. 13
Combining extended UML models and formal methods to analyze real-time systems p. 24
Defining and decomposing safety policy for systems of systems p. 37
Generalising event trees using bayesian networks with a case study of train derailment p. 52
Control and data flow testing on function block diagrams p. 67
Comparing software measures with fault counts derived from unit-testing of safety-critical software p. 81
Automatic analysis of a safety critical tele control system p. 94
A formal model for fault-tolerance in distributed systems p. 108
Model-based safety analysis of simulink models using SCADE design verifier p. 122
Using safety critical artificial neural networks in gas turbine aero-engine control p. 136
On the effectiveness of run-time checks p. 151
A technique for fault tolerance assessment of COTS based systems p. 165
Finding upper bounds for software failure probabilities - experiments and results p. 179
Justification of smart sensors for nuclear applications p. 194
Evolutionary safety analysis : motivations from the air traffic management domain p. 208
Public-key cryptography and availability p. 222
End-to-end worst-case response time analysis for hard real-time distributed systems p. 233
Safety interfaces for component-based systems p. 246
A safety-related PES for task-oriented real-time execution without asynchronous interrupts p. 261
Are high-level languages suitable for robust telecoms software? p. 275
Functional apportioning of safety requirements on railway signalling systems p. 289
Automatic code generation for PLC controllers p. 303
The TACO approach for traceability and communication of requirements p. 317
An IEC 62061 compliant safety system design method for machinery p. 330
Design evaluation : estimating multiple critical performance and cost impacts of designs p. 344
The application of an object-oriented method in information system security evaluation p. 357
Towards a cyber security reporting system - a quality improvement process p. 368
Security research from a multi-disciplinary and multi-sectoral perspective p. 381
Problem frames and architectures for security problems p. 390

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.