

ASSET LIFECYCLE MANAGEMENT

- 1) Specify for Reliability and Sustainability
- 2) Design for Reliability and Sustainability
- 3) Procure/Buy for Reliability and Sustainability
- 4) Build for Reliability and Sustainability
- 5) Precision Installation and Commission for Reliability and Sustainability
- 6) Operate for Reliability and Sustainability
- 7) Maintain for Reliability and Sustainability

ASSET CONDITION INFORMATION

- 1) Ultrasound Testing
- 2) Fluid Analysis
- 3) Vibration Analysis
- 4) Motor Testing
- 5) Infrared Thermal Imaging
- 6) Nondestructive Testing

PREVENTIVE MAINTENANCE

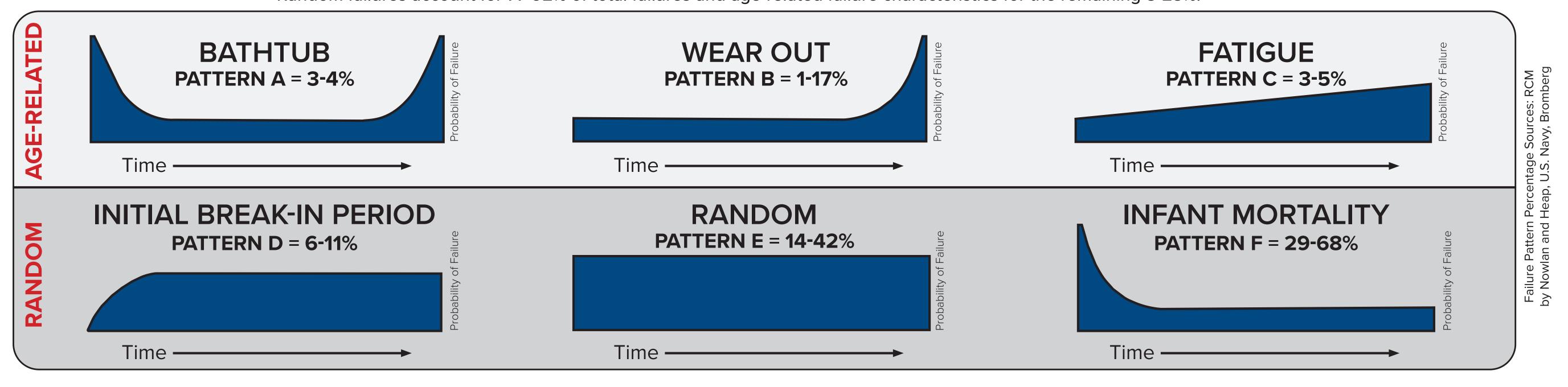
- 1) Time- and Usage-Directed Tasks
- 2) Human Inspection

FAILURE

- 1) Age Related Failures
- 2) Random Failures
- 3) Hidden Failures
- 4) Functional Failures
- 5) Catastrophic Failures

FAILURE PATTERNS

Random failures account for 77-92% of total failures and age-related failure characteristics for the remaining 8-23%.





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