DeMaMech 2005 Exchange Student Report

Kentaro WATANABE

Home Univ: The University of Tokyo

Host Univ: Technical University of Berlin

summary

Schedule

28.08.2005-02.11.2005 TU Delft in Holland (for lectures)

02.11.2005-02.02.2006 TU Berlin in Germany (for research)



Research Theme: "DESIGN IMPROVEMENT BY FMEA AND ITS INFLUENCES ON INCREASING THE RELIABILITY OF MECHATRONIC SYSTEMS"

During my stay in EU, I learned and felt many things. Many things that changed my way of thinking...









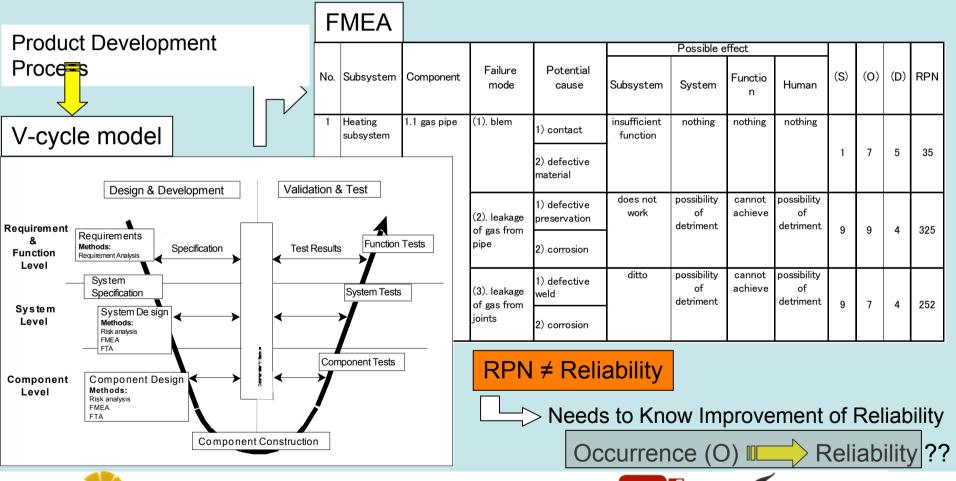
Research at TU Berlin

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Theme: "Design Improvement by FMEA and Its Influences on Increasing the Reliability of Mechatronic Systems











Research at TU Berlin

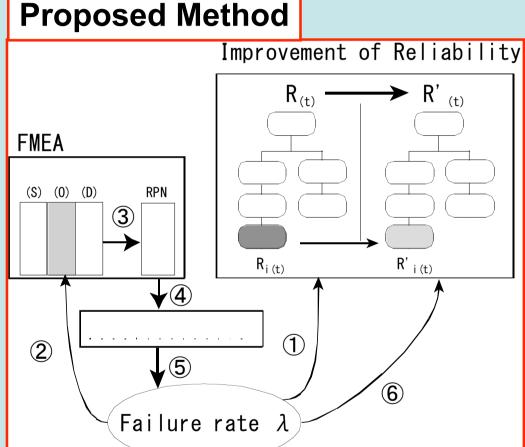
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Occurrence (O)	State	Failure rate λ [%/1000h]
10	Very high: Failure is almost inevitable	> 50, (greater than 1 in 2)
9		33, (1 in 3)
8	High:Repeated failures	12.5, (1 in 8)
7		5, (1 in 20)
6	Moderate: Occasional Failures	1.25, (1 in 80)
5		0.25, (1 in 400)
4		0.05, (1 in 2000)
3	Low: Relatively few failures	0.00667, (1 in 15,000)
2		0.00067, (1 in 150,000)
1	Remote: Failure is unlikely	<= 0.00067, (1 in 1,500,000)











Exchange Student Life!!

Friends, Study, Parties...!!

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