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Tolerance Stack-up Analysis

(2 days)

Date	Topics
Day1	Product Design Considerations
	Part & Assembly Stack-ups
	ISO System of Limits and Fits
	Tolerances achievable by various Machining Operations
	Tolerance Analysis and Tolerance Allocation
	Worst-Case Tolerance Stack-up analysis: Max–Min Method
	Worst-Case Tolerance Stack-up analysis: Equal Bi-Lateral Method
	Case studies of Worst case tolerance analysis
	Exercises
Day2	Root Sum Square Tolerance Methodology
	Case studies of root sum square tolerance analysis
	Estimated Mean Shift Method
	Overview of Geometric Tolerances and their stack-up
	Tolerance analysis of an assembly considering the geometric tolerances of surfaces - flatness, parallelism and profile of surface
	Position Tolerance Formulas - Floating and Fixed Fasteners
	Tolerance analysis of position tolerance applied to axis and mid planes under RFS
	Exercises