



Book of Abstracts - 10th CIRP Conference on Computer Aided Tolerancing, Specification and Verification for Assemblies

By Albert Weckenmann

Shaker Verlag Mrz 2007, 2007. Taschenbuch. Book Condition: Neu. 208x146x10 mm. Neuware - Research in metrology and tolerancing is of major interest in design, manufacturing and quality control. Dimensional and geometrical metrology as well as geometrical tolerancing developed rapidly and drastically in the last years due to global changes in production technology and increased requirements regarding economy and safety. The replies in metrology and specification concern the increasing introduction of optical, robust and shop floor suitable methods of augmented accuracy, the dispersion of the coordinate measuring method from tactile techniques to various techniques based on other measuring effects and the provision of new procedures for measurements with sub-nanometer resolution. For assuring maximum significance of measurement results particularly global traceability and uniform strategies for measurement uncertainty evaluation are being developed. Concepts for computer assisted and web-based education and training for metrology reflect the enormous influence of the operator on measurement results. On the other side new mindsets and methods regarding geometrical tolerancing had to be developed and established. This is especially true for assemblies where manufacturing tolerances of the individual parts may sum up, or interact. Modern simulation tools enhance tolerancing and thus help to ensure the function of assembly groups....

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