

Engineering Metrology Computer Aided Inspection

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Computer-Aided Inspection is the process of taking physically produced parts and comparing the geometry to the original CAD model to ensure the finished product matches up with the designed part. Traditionally, production lines would measure one part out of a large batch and use that information in the part quality check.

[Computer-aided inspection - Wikipedia](#)

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Modern metrology allows for easy 3D scanning of a product to create digital replica of it stored as a point cloud. Complete computer-aided inspection (CAI) products have functions for registration of scans to the CAD using options such as best fit, datum-based, or 3-2-1 alignment.

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Computer Aided Inspection. Computer Aided Inspection (CAI) is a new technology that enables one to develop a comparison of a physical part to a 3D CAD model. This process is faster, more complete, and more accurate than using a Coordinate Measuring Machine (CMM) or other more traditional methods.

Computer Aided Inspection - Learn Mechanical Engineering

METROLOGY AND COMPUTER AIDED INSPECTION. Metrology concepts- Abbe ' s principle-need for high precision measurements- problems associated with high precision measurements. Standards for length measurement- Shop floor standards and their classification- Light interference- Method of coincidence- Slip gauge calibration-measurement errors. Various tolerances and their specifications, gauging principles, selective assembly, comparators.

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Pergamon Press, 1986 - Technology & Engineering - 222 pages. 0 Reviews. This handbook comprehensively covers metrology principles and modern inspection methods in all their forms, and offers practical guidance on the choice of options available for carrying out specific inspection tasks. A wide range of industrial applications is covered in depth, including the use of electronic and computer-aided measurement techniques.

Engineering Metrology - D. M. Anthony - Google Books

Computer-aided inspection planning (CAIP) has gained significant research attention in the last years. So far, most CAIP systems have focused on the use of a touch probe mounted on a coordinate measuring machine (CMM). This article investigates multisensor measurement aiming to perform automatic and efficient inspection plans.

Computer-Aided Inspection Planning: A Multisensor High ...

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