



Design and Analysis of Combinatorially Assembled Optical Systems

By Max Christian Funck

Cuvillier Verlag Jan 2012, 2012. Taschenbuch. Condition: Neu. Neuware - Producing high quality optical systems at reasonable cost is a challenge and solutions enabling cost-efficient production in small to medium quantities need to be developed in order for Germany to stay competitive on the global market. Both, performance and cost are largely influenced by manufacturing and assembly tolerances and frequently compensation such as alignment is required to achieve the demanded performance. This dissertation systematically develops combinatorial assembly as acompensation strategy which does not require iterations and as such is suitablefor automated production of small series. A pool of components and subassemblies, necessary for the assembly of a series of systems, ischaracterized prior to the assembly and measurement results are stored in adatabase. Then, optimal component combinations are found during a modelbased selection process. The application of combinatorial assembly to optical systems requires a delicatechoice of parameters for characterization, modules and tolerances beforecomponents are manufactured. Predicting the as-built performance of combinatorially assembled systems with high accuracy is therefore necessaryand a dedicated tolerance analysis concept based on Monte Carlo analyses isproposed. The concept is universally applicable to problems that can be modelled with raytracing and is implemented using a combination of raytracing software, logic calculator and database. This makes it possible to accurately analyze the...



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