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Presentation Title: Overview Investigation into the development of Composite Deformation to Forming Complex Components

Short Introduction:

Different from the traditional forming methods such as autoclave, RTM, winding etc. with low efficiency, deformation induced forming method is being developed very fast including deep drawing, stretch forming, rubber membrane forming. The basic theory of these innovative methods is arranging-plasticity with strain and stress distribution that should be analyzed and the same constitutive equation also need to be investigated for the numerical simulation. In this presentation, the innovative forming methods will be introduced and some basic concepts and ideas including forming mechanism, plasticity theory and process parameters will be discussed. It can be predicted that these efficient forming methods will be developed very fast during the next 10 years.

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