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Investigations of Deep Drawing of Cylindrical Components

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Analytical, Numerical and Experimental approach | This book describes the approach of Analytical, Numerical and Experimental study of Deep Drawing process, on the basis of parameters selected from tooling industry point of view. Analytically studied parameters are: Stress, Punch force, Blank holder force and Initial Blank size. For Experimental study, two cylindrical components are drawn and parameters studied are: formability, thickness distribution, major and minor strain in cup wall. Classification of various Finite Element Analysis softwares is studied. Inverse Finite Element Analysis is done to check formability and initial guess for blank size & shape. After this by selecting different initial blanks with varying material properties & blank holder force, incremental analysis are done to obtain stress Vs displacement curve, thickness distribution, formability and Forming Limit Diagram. The comparison of results shows good agreement between Analytical, FEA and Experimental results. This book illustrates methodology which can be followed to obtain optimum values of drawing process parameters & sheet material properties before product & press tool manufacturing. | Format: Paperback | Language/Sprache: english | 96 pp.



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