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Abstract:

Simulation and evaluation of automotive body structural performance using CAE are indispensable for expanding the application of high strength steel sheets as a means of promoting weight reduction in automobile. JFE Steel has established a new environment for these application fields in order to establish Early Vendor Involvement (EVI) for automotive makers. As examples of application technologies supporting expanded use of high strength steel sheets, this paper introduces prediction/evaluation technologies using analytical techniques and joining techniques, as well as related systems which develop these technologies, and also describes part of JFE Steel's efforts in application evaluation technology.

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