

Advance Method of Re-scheduling after a Machine Breakdown.Case Study Ceramic Manufacturing Plant South Africa.

Abstract— In the process of manufacturing, a machine breakdown usually forces a modified flow shop (MFS) out of the prescribed state, these strategy reschedules part of the initial schedule to match up with the pre-schedule at some point with the objective to create a new schedule that is reliable with the other production planning decisions like material flow, production and suppliers by utilizing a critical decision making concept. We propose a new rescheduling strategy and a match-up point that will have a determination procedure through an advanced feedback control mechanism to increase both the schedule quality and stability. These approach is compared with alternative re-scheduling methods under different experimental settings.

Keywords— scheduling; Heuristics; Branch and integrated scheduling.