



Deep Throttle Turbopump
Technology Design Concepts

NASA Technical Reports Server
(NTRS), et al., Adiel Guinzburg

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Deep Throttle Turbopump Technology Design Concepts (Paperback)

By Adiel Guinzburg

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. The objective of this project is to increase the throttling range of turbopumps from 30 to 120 of the design value, while maintaining high performance levels. Details are given on wide flow range issues, H-Q characteristics, stall characteristics, energy levels, pressure fluctuations at impeller exit, WFR impeller characteristics, commercial diffuser pumps, slotted or tandem vanes, leading edge characteristics, leading edge models, throat models, diffusion passage models, computational fluid dynamics (CFD) methodologies, and CFD flow cases.



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