

# Application of Model Based System Engineering in Hydraulic Energy System Design



Quanrun Mou, Xiaolong Tong, Zhenghong Li, and Liangliang Liu

**Abstract** In this paper, the system engineering method based on the model is applied to the design of hydraulic energy system. Based on Doors software, the system level and product level requirements are allocated from top to bottom and retrospected back up. Based on Rhapsody software, function logic modeling of hydraulic energy system and correlation modeling between requirement and activity are carried out. Based on Amesim software, system performance simulation modeling and verifying is implemented.

---

Q. Mou (✉)

Shenyang Aerospace University, Shenbei, Shenyang, China

X. Tong · Z. Li · L. Liu

Shenyang Aircraft Design Institute, Tawan, Shenyang, China