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论文

基于多色图的BOM建模

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摘要:

不同形式的物料清单(bill of materials, BOM)造成零部件数据信息一致性维护困难,为了降低BOM数据在部门间传递出错的几率,提出基于多色图的BOM模型.以设计BOM和制造BOM为基础,构建BOM主模型,通过多色图中节点和边的“颜色”控制零部件及其相互关系的不同构型,建立各应用BOM模型,并分析了BOM主模型与应用BOM间的结构关系、语义关系和普遍关系.最后,以项目应用实体验证了方法能够有效保证应用BOM间的数据一致性和完整性,且模型易于扩展.

关键词: 物料清单;建模;图论;多色图

The BOM modeling based on the polychromatic graph

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Abstract:

It is hard to keep data consistency between various BOMs, which are from different departments. A polychromatic graph based BOM model was presented to decrease errors during the delivering of data. Benefiting from the polychromatic character of the graph, the model can easily be transformed to different application BOMs. The structure relation, semantic relation and general relation between the presented BOM model and application BOMs were analyzed. The effectiveness of this approach was validated for the project application.

Keywords: BOM; modeling; graph theory; polychromatic graph

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