哈 尔 滨 理 工 大 学

毕 业 设 计

重型推土机工作装置设计

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摘要

推土机作为铲土运输机械中最具代表性的机种之一，是由许多部件组合起来的一个整体，其整机性能不仅取决于每个部件的品质，而且取决于各部件之间的相互协调。推土工作装置是推土机的重要部件, 其设计参数的优劣将直接影响到推土机的性能。在全面了解履带式推土机结构与工作原理的基础上，设计优化履带式推土机工作装置。文中详细叙述了履带式推土机的总体设计、推土工作装置结构设计当中各部件的铰接方案的确定以及参数的计算过程，包括推土铲的设计与计算、松土器的设计与计算、工作装置液压系统的设计、顶推梁的设计与强度校核、推土机作业阻力的计算等，完成了符合设计技术要求的履带式推土机的工作装置

关键词　履带式推土机；工作装置；液压；强度校核

Design of Work Installment on Bulldozer

Abstract

Bulldozer scraping transport machinery was the representative of the types of planes which is combined many components. Its overall performance depends not only on the quality of each component, but also depend on the mutual coordination of all the parts. In blade bulldozer, working device is an important component. Its design parameters will impact on the performance of the bulldozers. Based on a comprehensive understanding of tractor structure and working principle,design tractor equipment and process simulation are intrduced. This paper describes the crawler tractor, the overall design Blade working device structure design of the various components hinged program and the calculation process. This paper also describes including the blade design and calculation, scarification of design and computation, the equipment hydraulic system design, pushing beam design and strength check, and calculates for the bulldozers resistance operations and design for process simulation system. The thesis complets with the design of the technical requirements of the crawler tractor attachments

Keywords Bulldozer； Equipment； Transport ； Machinery Scraper