<<大坝技术及长效性能研究进展>>

图书基本信息

书名：<<大坝技术及长效性能研究进展>>

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内容概要

In recent years, the global economic and social development has encountered many difficulties and problems, such as earthquakes, tsunamis, hurricanes, floods, severe droughts, climate changes, energy and economic crises. History of human development has demonstrated that dam has played and will continue to play an important role in addressing the difficulties and challenges.

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书籍目录

章节摘录

版权页：插图：Abstract:Thermal loads are the stress boundary condition of masonry arch dam, The annual temperature field and temperature variation field are natural environmental boundary conditions, and are difficult to control artificially, but the joint closure temperature field can be controlled by engineeringmeasures. For masonry arch dam without transverse joints, the joint closure temperature of different layers are changed with air temperature, construction materials and masonry temperature. Confirm anadvisable joint closure temperature is effective mean for controlling the stress of masonry arch dam. Byway of simulative analysis of the temperature field and stress field on masonry arch dam, the effectionlaw on the stress of masonry arch dam is analysis under the conditions of the different closure temperature field, a closure emperature stress simulation model for masonry arch dam and a correspondingexpression are proposed. The computation results of one case study show that the model used to deter-mine the temperature range of joint closure is reasonable and masonry arch dam stress can be effectively controlled.This method has practical value for the design and construction of masonryarch dam.Key Words: Masonry Arch Dam; Stress of Arch Dam; Safety joint closure temperature; Calculation Model.

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编辑推荐

为总结混凝土坝技术取得的巨大成就，明确国际坝工界具有里程碑意义的工程，中国大坝协会组织编写了这本《大坝技术及长效性能研究进展》。
全书收录了近百篇国内外专家的论文，反映了国际和国内在大坝技术及长效性研究方面最新、最先进的科研成果。

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