

Research on Hydrology Design and Checking of Bridges in Small and Medium Watersheds

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Abstract: In order to reduce the flood disaster of bridges in small and medium watersheds, a hydrology design and checking method, which was based on flow influence line, was put forward. The basic steps of this method are as follows: calibrate model by water marks and the corresponding rainfall series; calculate flow process line by loading rainfall series of design or checking frequency on calibrated model, and get design peak flow, design flood-peak stage, checking peak flow, checking flood-peak stage, etc; so hydrology design of new bridges and checking of existing bridges can be done. The results show that this method requires less parameter, and is convenient in practical application and reliable in calculation accuracy. Therefore, it is of great significance for new and existing bridges avoiding flood damages.

Preface

Flood damage is a serious natural disasters for bridges^[1]. Riverbed or the upper structure is prone to be destroyed by floods for bridges with smaller span or lower deck. However, longer span or higher deck project may produce unnecessary investment. Drainage flood safely is an important criterion^[2] for bridges crossing rivers, which needs to determine the design peak flow accurately. Design reference period of exiting bridges is 100 years, while some bridges are still in service hundred years later. Once bridges are built, runway and vegetations are altered, and damage of sediment transport equilibrium causes scouring^[3-4]. In addition, illegal buildings and sand excavation on watercourses may affect flood-resistance performance of existing bridges. Besides, the rainstorms are abnormal at space-time misdistribution, enlarged scope and intensity, and serious floods in local areas in recent years. Bridges as an important part directly subject to floods, once they are destroyed, it will causes serious losses to transportation, and affect the disaster relief. "8.8 flood" in Taiwan is a painful lesson. Therefore, it's necessary to estimate flood-resistance performances of bridges, according to current hydrology environment.

Because of more than 80% bridges in small and medium watersheds without hydrology observation station, hydrologic calculation methods mainly comprise two types at present. One is based on the modern advanced science and technology method, the other is based on hydrology information of similar watersheds. Although advanced methods are more comprehensive, some parameters needs to be got by rainfall, floods and evaporation data of many years. The second type is based on regression analysis of existing hydrometric station information. These methods have problems taking the setting condition of hydrology hardware into account^[5].

Watershed hydrology model based on floods is the most reasonable model. So a flow influence line method used for hydrology design and checking is put forward. This method is of important theoretical and practical significance for bridges in small and medium watersheds, especially for the watersheds without hydrology observation records.

Flow influence line method

Flow influence line method^[6] is a hydrology design and checking method based on the principle of stress influence line. Flow influence line model contains three parameters, rising duration t_1 , falling duration t_2 and peak value C_{max} , as shown in Fig.1.

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