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珠江河口地区桥梁阻水效应分析

Analysis on the Water-Flow Retardation of Pearl River Estuary Bridge Area

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中文关键词: [珠江河口](#) [桥梁](#) [阻水效应](#) [分析](#)英文关键词: [PearlRiver estuary](#) [bridge](#) [water flow retardation](#) [analysis](#)

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中文摘要:

该文根据珠江河口地区已建桥梁情况,对桥梁建设后的阻水效应进行分析。研究表明:在珠江河口地区,桥梁的阻水效应与桥墩阻水比有关,阻水比越大,阻水效应越大;桥梁所在河道断面的流速越大,阻水效应就越大;同时桥梁阻水还存在叠加效应,桥梁间距越小,叠加效应越明显,但当桥梁间距超出一定范围后,其叠加效应将不再明显。

英文摘要:

The estuary region of Pearl River is densely distributed by numerous water networks and various bridges .As a result , due to the water-flow retardation effects of the piers , the construction of the bridge will bring about certain impacts to the flood di-ersion capacity of the river channel .Therefore, according to the existing bridge construction situations in the estuary region of Pearl River , analysis on the water -flow retardation effects of the piers'after construction has been carried out .The investigation result in-dicateas far as the estuary region of Pearl River is concerned , the water-flow retardation effect of the bridges is related with the piers'water-flow retardation proportion .To be specific , the higher the proportion is , the greater the water-flow retardation effect will be;what's more, in the river section where the bridge is built , the more rapid the flow velocity is , the greater the water-flow retardation effect will be;meanwhile, there are also superimposed effects in the water -flow retardation effects of the bridge .More specially, the smaller the pier spacing is, the more obvious the superimposed effect will be .However, when this spacing exceeds certain scope , such superimposed effect will no longer be distinct .

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