

农业工程

## 棱柱体明渠水面曲线的级数解法

张邦朝<sup>1</sup>, 赵中丽<sup>2</sup>

1. 云南农业大学科技处, 云南 昆明 650201; 2. 云南省水利水电学校, 云南 昆明 650202

收稿日期 2007-4-3 修回日期 2007-4-26

**摘要** 根据水利工程的实际应用和所需的精度要求, 结合水力学所涉及各类不同因素及水流运动变化特点, 为寻求各型水面曲线的简捷计算方法, 在此引用级数的概念, 研究棱柱体明渠恒定渐变流水面曲线的解, 通过对已建成的十几个中小型水利工程实例和在教学实践中、结合实际工程设计进行水面曲线简化计算的研究后, 认为棱柱体明渠水面曲线级数解是适宜于中小型水利工程精度要求、且计算方法简便快捷求解水面曲线解的又一种途径。

**关键词** [棱柱体明渠](#) [水面曲线](#) [水力指数](#) [级数](#)

**分类号** [TU 992.22](#)

## The Method on the Progressional Value of the Water Surface Line Which Lie in Prismatic Channel and the Application of it

ZHANG Bang-chao<sup>1</sup>, ZHAO Zhong-li<sup>2</sup>

1. Division Science and Technology, Yunnan Agricultural University, Kunming 650201, China;

2. School of Irrigation and Water Electricity of Yunnan Province, Kunming 650202, China

### Abstract

In according to the practical application in the Water conservancy engineering and precision demanded, combining with all kinds of different factors and changeable characteristics of fluid which involve in hydraulics. For finding out the simple and direct way on all kinds of curves of water, quoting the conception of progressional here, the solution of curve of prismatic channel gradual-varied steady flow are studied. After studying simplified calculation on curve of water to tens of middle and small water conservancy engineering practical examples and the use of combination in teaching and practice. It can be concluded that this progressional value satisfies the precision demand in the middle and small water conservancy engineering. The simple and direct calculation method is another way to solve the curve of water.

**Key words** [prismatic channel](#) [curve of water](#) [hydraulic index](#) [progression](#)

DOI:

通讯作者

### 扩展功能

#### 本文信息

▶ [Supporting info](#)

▶ [PDF\(226KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

#### 服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

#### 相关信息

▶ [本刊中包含“棱柱体明渠”的相关文章](#)

▶ [本文作者相关文章](#)

· [张邦朝](#)

· [赵中丽](#)