Abstract

Seepage is one of the most serious forms of water loss in an irrigation channel network. This paper summarizes a literature review of research on determination of seepage losses in unlined channels. An analytical solution is obtained for estimation of seepage from a channel under different conditions with uniform infiltration from free surface zone. The solutions include relations for variation in seepage velocity along the channel perimeter and a set of parametric equations for the location of phreatic line. These solutions are useful in quantifying seepage losses through channels.
References


Index Terms

Computer Science
Communications

Keywords

Unlined Channels; Canals; Seepage;