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**CONTROL OF EROSION AND SEDIMENTATION IN MALAYSIAN RIVERS  
USING SEDIMENT TRANSPORT RELATIONSHIPS**

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**ABSTRACT**

The applicability of two alternatives in designing a stable river channel for Malaysian rivers was illustrated using field data measurements of bedload at Johan River, near Pusing, Ipoh. These two alternatives are the available sediment transport equations and the newly derived regime equations. It was found that Einstein-Brown equation predicted fairly good the measured bedload and the new regime equations satisfied the continuity requirement.

**INTRODUCTION**

Erosion and sedimentation in rivers involve a dynamic process resulting from the interaction between the flowing water and sediment bed. An understanding of this interaction which causes sediment movement in rivers is important to control the erosion and sedimentation processes to within allowable limits.

An example of a river training work requiring the knowledge of sediment movement is the straightening of a meandering river reach to alleviate flood problem. The straightening of a