Application of BIM Technology in Deep Foundation Pit Construction Course Teaching (Postprint)

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Abstract

Deep foundation pit construction course instruction involves numerous construction schedule simulation processes that are difficult to convey. BIM technology offers advantages in three-dimensional visualization and information integration management. By introducing BIM into deep foundation pit construction course instruction, this work presents the overall course objectives and organizational structure, constructs an application framework system and workflow for construction schedule management based on BIM technology, and, based on a background project, establishes a 4D deep foundation pit model with generated construction simulation animations. These efforts constitute an innovative practice in deep foundation pit construction course instruction, enabling students to more intuitively and vividly understand and master the schedule management system and construction workflow.

Full Text

Preamble

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Note: Figure translations are in progress. See original paper for figures.