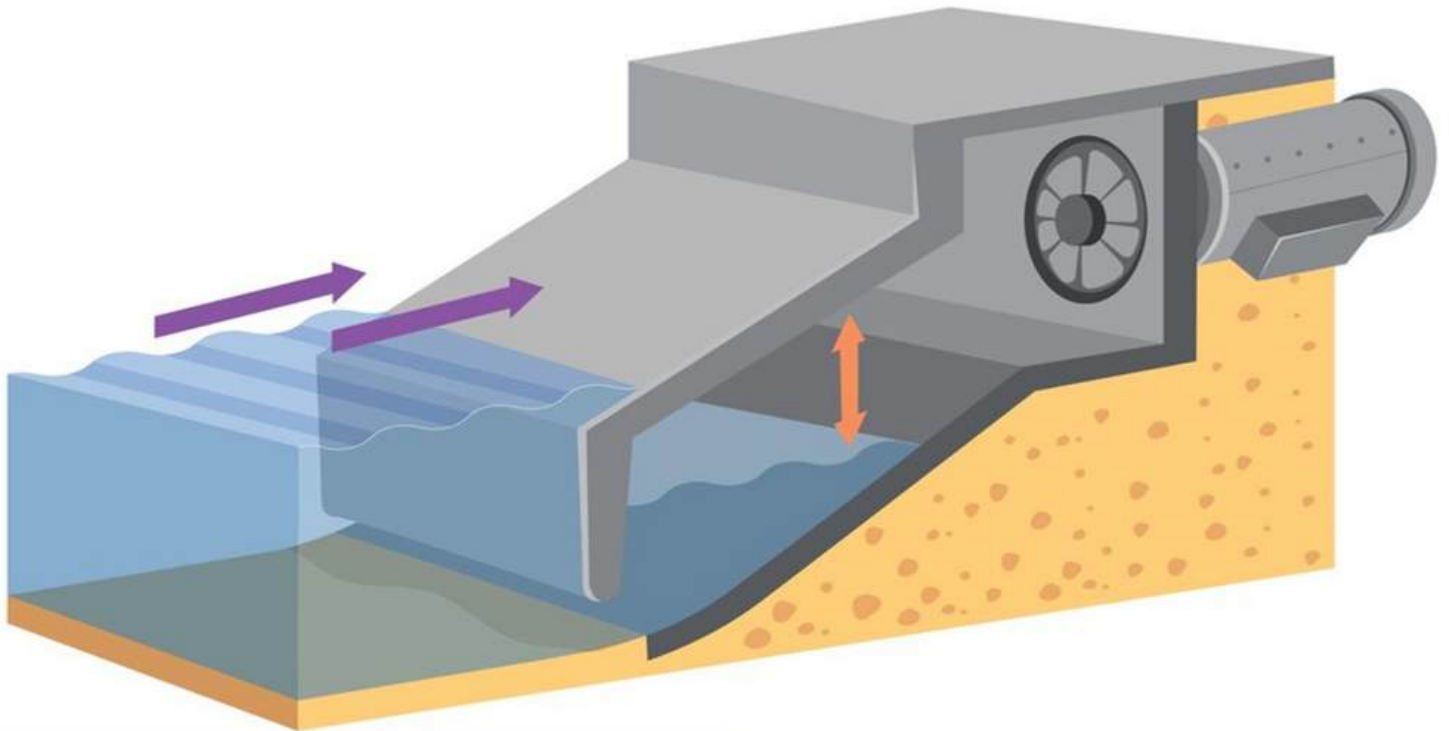


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Performance of Fuzzy Inference System Model to predict the Effect of Steel Fibre on Compressive Strength of Concrete



Series Editor:



Doha Shehu Aliyu
PhD Structural engineering
Lecturing
Civil Engineering
Aliko Dangote University of science and
technology, Wudil.
Nigeria
engrshanono@gmail.com

Editors Book Series ID:
IIPER1674117360



Iterative International Publishers
Novi, Michigan, USA
Chikkamagaluru, Karnataka, India

Imprint IIP

Registered publisher under Raja Rammohun Roy Agency,
Government of India and also under Bowker My identifiers
agency, USA

Important dates:

Chapter/paper submission starts on: 12/06/2024
Last date for chapter/paper submission: 28/09/2024
Acceptance notification: 08/10/2024
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Performance of Fuzzy Inference System Model to predict the Effect of Steel Fibre on Compressive Strength of Concrete

Aims and Scope:

To ensure construction project safety and progress, a computational analysis simulates the compressive strength of High-Performance Steel Fiber Reinforced Concrete (HP-SFRC). A machine learning framework is integrated to establish a predictive model for compressive strength, addressing the challenge of determining in-situ HP-SFRC strength, influenced by site-specific and ambient conditions. The model leverages known mixture proportions as inputs to estimate HP-SFRC's compressive strength. This approach is chosen due to the complexities associated with accurately determining on-site strength

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