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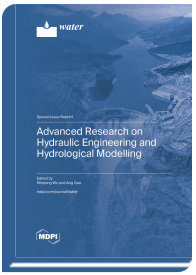
Advanced Research on Hydraulic Engineering and Hydrological Modelling



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ISBN 978-3-7258-6073-9 (Hardback)
ISBN 978-3-7258-6074-6 (PDF)

Hydraulics and hydrology are ancient disciplines that play a crucial role in ensuring water security, safeguarding water environments, and maintaining water ecology. In recent years, the construction of high dams, such as the Baihetan Project, has not only resolved numerous problems but has also generated a wealth of practical theories, advanced techniques, and valuable practical experiences in the fields of hydraulics and hydrology. Physical models, numerical models, and prototype measurements are traditional research methods. However, with the rapid advancement of emerging technologies like information technology and big data, the integration of these technologies with hydraulics and hydrology has emerged as a prominent research topic in the current academic landscape. It is essential to summarize and disseminate the above-mentioned research findings to further promote the development of this area of interest. We hope that the work contained within this Reprint will be useful to the scientific community, policymakers, and stakeholders in the field of hydraulics and hydrology at large.

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