DESCRIPTION

This series of five volumes proposes an integrated description of physical processes modeling used by scientific disciplines from meteorology to coastal morphodynamics.

• Volume 1 describes the physical processes and identifies the main measurement devices used to measure the main parameters that are indispensable to implement all these simulation tools.

• Volume 2 presents the different theories in an integrated approach: mathematical models as well as conceptual models, used by all disciplines to represent these processes.

• Volume 3 identifies the main numerical methods used in all these scientific fields to translate mathematical models into numerical tools.

• Volume 4 is composed of a series of case studies, dedicated to practical applications of these tools in engineering problems.

• Volume 5 identifies and describes the modeling software in each discipline.
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ABOUT THE AUTHOR

Jean-Michel Tanguy, Ministry of Sustainable Development, France.

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