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Sommario/riassunto	Climate change and land use transformations have induced an increased flood risk worldwide. These phenomena are dramatically impacting ordinary life and the economy. Research and technology offer a new strategy to quantify and predict such phenomena and also mitigate the impact of flooding. In particular, the growing computational power is offering new strategies for a more detailed description of the flooding over large scales. This book offers an overview of the most recent outcomes of the research on this argument.