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# HYDROLOGY and Floodplain Analysis

Sixth Edition

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Philip B. Bedient  
Wayne C. Huber  
Baxter E. Vieux



**ALL NEW 6TH EDITION!**

**HYDROLOGY.RICE.EDU**

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Hydrology and Floodplain Analysis, 6<sup>th</sup> Edition, is the premiere resource for hydrologists and engineers. It is ideal for students in hydrology courses or can serve as an engineer's reference guide.

## WHAT'S NEW: HARVEY IMPACTS & FLOODING

By adopting the 6<sup>th</sup> edition, you will gain access to Harvey data, PowerPoints, and research. This edition incorporates the latest advancements in hydrology and many new examples, figures, pictures, chapters & homework problems.

New chapters and examples indicated below:

- Chapter 6: SWMM5 example embedded in a real case study of the application of stormwater controls
- Chapter 7: HEC-RAS discussion with a new detailed example
- Chapter 8: Examples in groundwater modeling from California
- Chapter 10: Chapter on GIS in Hydrology with a new example
- Chapter 11: Radar chapter with a new *Vflo*<sup>®</sup> example
- Chapter 12: Chapter on flood policy evolution in the U.S.
- Chapter 13: Chapter on water resources case studies across America, including Colorado River, Columbia River, and Texas flood issues (including Harvey impacts).

The Sixth Edition showcases the latest developments in hydrology: Computer software and models used to define floodplains; hydrologic models (HEC-HMS, HEC-RAS, and EPA SWMM5) and GIS software, including radar rainfall and LiDAR terrain data. Additional resources, important websites and links, and large-scale data that are used routinely in hydrology are found at [hydrology.rice.edu](http://hydrology.rice.edu).