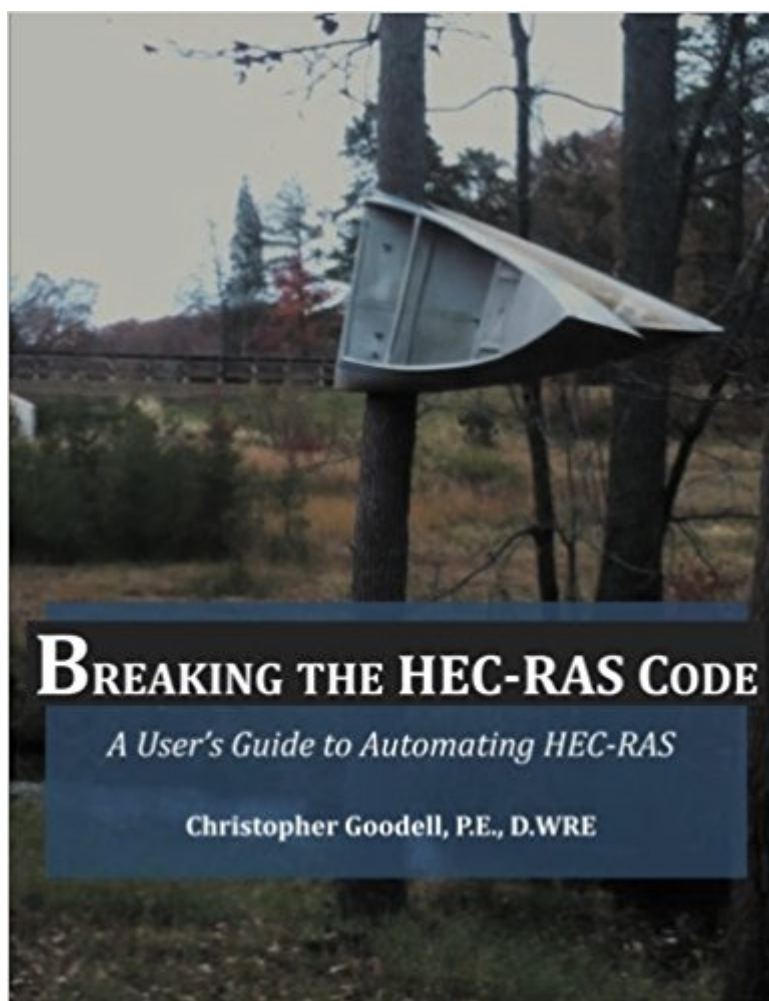


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# Breaking The HEC-RAS Code: A User's Guide To Automating HEC-RAS



## Synopsis

One of the most powerful, yet relatively unknown features available in HEC-RAS is the HECRASController. The HECRASController API has a wealth of procedures which allow a programmer to manipulate HEC-RAS externally by setting input data, retrieving input or output data, and performing common functions such as opening and closing HEC-RAS, changing plans, running HEC-RAS, and plotting output. HECRASController applications are seemingly endless. Not only can the retrieval and post-processing of output be automated, but with the HECRASController, real-time modeling and probabilistic experiments like Monte Carlo are possible. If you have HEC-RAS on your computer, you already have the HECRASController! Breaking the HEC-RAS Code explains how the HECRASController works, provides example applications of the HECRASController, and catalogs the vast array of programming procedures (with explanations and examples on how to use them) embedded in the HECRASController. This is a "must-have" book for all HEC-RAS users. Professionals: Give yourself an edge for the next proposal and do something groundbreaking with HEC-RAS. Students: Make yourself marketable by adding the skills offered in this book.

## Book Information

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## Customer Reviews

Christopher Goodell is the Director of Applied Research for WEST Consultants, Inc. He is a licensed professional engineer and a Diplomate of Water Resources Engineering with the American Academy of Water Resources Engineers. He spent over two years at the Hydrologic Engineering Center working on the development of HEC-RAS and has been teaching HEC-RAS to professionals

since 2001. Mr. Goodell regularly gives lectures and presentations on HEC-RAS and is the author of The RAS Solution, an online help site dedicated to HEC-RAS. He resides in Portland, Oregon with his wife and three daughters.

This book is a valuable tool for HEC-RAS users in order to automate procedures by controlling the program externally. The book is suitable for programming beginners considering that describes stepwise routines for controlling HEC-RAS from Microsoft Excel using VBA; however it also provides the necessary information for experienced programmers who want to do their own developments. The included examples are really useful for practical purposes. I strongly recommend this book specially if you need to perform computationally demanding tasks as Monte Carlo simulations.

Great

This book is a fantastic resource that has already proved invaluable to me in the several weeks I have been using it. It is accessible for those with no programming experience to speak of, going through the basics needed to understand the very well commented example code. For those with more extensive programming experience looking to exploit the ability to automate the parameters and execution of multiple HEC-RAS runs, every possible internal API function is rigorously documented and the syntax needed to specify every detail of a model via its associated text files is provided. Depending on what you want to do, it might have even provided the code for you in the many example applications. If the potential to automate control of HEC-RAS might at any point be useful to you, buy this book.

This is an excellent resource for hydraulic engineers. The book is very well written and presented. The strategies presented in this text truly unleash the vast potential the HEC-RAS has, in its use from small scale hydraulic design to large scale dam breach analysis and everything in between. The text is complete with respect to relevant examples with explanation. Application of techniques presented herein will certainly make life easier for hydraulic engineers.

Great book! Easy to follow and can be understood by anyone with basic experience with HEC-RAS. Allows you to expand the capabilities of HEC-RAS and allows you to easily automate and control HEC-RAS. A must buy!

I have started to flip through the book and wanted to give you some initial feedback. The book looks to be everything I need to get started on some of my HEC-RAS automation projects! I have gone through the first few examples and am very excited to dig further into it. I believe this is the reference available that gives information on the HEC-RAS controller and syntax needed to program with it.

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