pyEMU Documentation

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pyEMU *[WFD16]* is a set of python modules for performing linear and non-linear uncertainty analysis including parameter and forecast analyses, data-worth analysis, and error-variance analysis. These python modules can interact with the PEST *[DOH15]* and PEST++ *[WWHD15]* suites and use terminology consistent with them. pyEMU is written in an object-oriented programming style, and thus expects that users will write, or adapt, client code in python to implement desired analysis. *Notes on Object-Oriented Programming* are provided in this documentation.

pyEMU is available via github .

CHAPTER

ONE

CONTENTS

1.1 Notes on Object-Oriented Programming

blah, blah, blah

1.2 Glossary

class blah, blah, blah

object

instance generated from the class. . .

CHAPTER

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CHAPTER

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REFERENCES

BIBLIOGRAPHY

[DOH15] Doherty, J., 2015. Calibration and Uncertainty Analysis for Complex Environmental Models: Brisbane, Australia, Watermark Numerical Computing, http://www.pesthomepage.org/Home.php .

[WFD16] White, J.T., Fienen, M.N., and Doherty, J.E., 2016, A python framework for environmental model uncertainty analysis: Environmental Modeling & Software, v. 85, pg. 217-228, https://doi.org/10.1016/j.envsoft.2016.08.017 .

[WWHD15] Welter, D.E., White, J.T., Hunt, R.J., and Doherty, J.E., 2015, Approaches in highly parameterized inversion: PEST++ Version 3, a Parameter ESTimation and uncertainty analysis software suite optimized for large environmental models: U.S. Geological Survey Techniques and Methods, book 7, section C12, 54 p., https://doi.org/10.3133/tm7C12 .