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H3H3 Erosion and Soil DOE-3: Design

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values /u0026 establishing

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Numeric predictions from two-factor

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(ANOVA) Main effects /u0026

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determine and use the correct set of controls. Separate chapters are devoted to the negative control, the positive control, and other categories of controls which are perhaps less recognized, such as “ assumption controls ” , and “ experimentalist controls. ” Further, there are sections on establishing the experimental system, which includes performing critical “ system controls ” . While the book does reference the use of statistics, statistics is not the focus of this book, but rather the way the scientist should go about framing an experimental question, establishing a validated system to answer the question, and deriving verifiable models from experimental data. There is often very little formal training in this area for biologists; therefore this text serves as an essential teaching

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(<https://stanlazic.github.io/EDLB.html>)

includes all R code, data sets, and the labstats R package. This is an ideal guide for anyone conducting lab-based biological research, from students to principle investigators working in either academia or industry.

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