

Math 362: Mathematical Statistics II

Le Chen

le.chen@emory.edu
chenle02@gmail.com

Emory University
Atlanta, GA

Last updated on Spring 2021
Last compiled on January 15, 2023

2021 Spring

Creative Commons License
(CC By-NC-SA)

Chapter 13. Randomized Block Designs

§ 13.1 Introduction

§ 13.2 The F Test for a Randomized Block Design

§ 13.A Appendix: Some Discussions and Extensions

Chapter 13. Randomized Block Designs

§ 13.1 Introduction

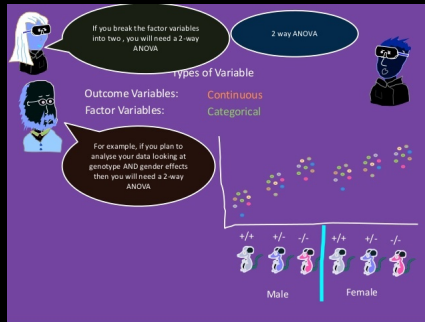
§ 13.2 The F Test for a Randomized Block Design

§ 13.A Appendix: Some Discussions and Extensions

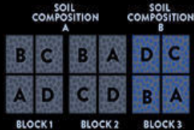
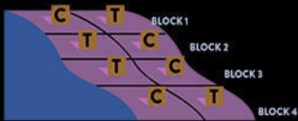
Rationale:

Reducing variability by blocking[†]

[†] *Blocking* is the arranging of experimental units in groups (blocks) that are similar to one another.



<https://www.slideshare.net/KevinHamill2/experimental-design-cartoon-part-5-sample-size>



Goal Reducing variability caused by

a *elevation.*

b *soil types.*

v.s.

c *complete randomized design*

} One-way ANOVA

Two-way ANOVA

<https://www.sare.org/Learning-Center/Bulletins/>

How-to-Conduct-Research-on-Your-Farm-or-Ranch/Text-Version/

Basics-of-Experimental-Design