Record Nr. UNINA9910886991003321 Autore Salinas Ruíz Josafhat Titolo Introduction to Experimental Designs with PROC GLIMMIX of SAS: Applications in Food Science and Agricultural Science / / by Josafhat Salinas Ruíz, Osval Antonio Montesinos López, Jose Crossa Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, 2024 Pubbl/distr/stampa **ISBN** 9783031655753 3031655753 Edizione [1st ed. 2024.] Descrizione fisica 1 online resource (267 pages) Altri autori (Persone) Montesinos LópezOsval Antonio CrossaJose Disciplina 519.57 Soggetti Experimental design Agriculture Food science Design of Experiments Food Science Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Chapter 1 Introduction to Experiment Design -- Chapter 2 Completely Nota di contenuto Random Design -- Chapter 3 Mixed Models -- Chapter 4 Randomized Complete Block Design -- Chapter 5 Incomplete Block Designs --Chapter 6 Nested Models -- Chapter 7 Covariance Analysis -- Chapter 8 Latin Square Designs -- Chapter 9 Split Plots -- Chapter 10 Strip Design -- Chapter 11 Repeated Measures. Sommario/riassunto In this book, the subject of design and analysis of experiments has been covered in simple language by giving basic concepts of various designs and essential data analysis steps of designed experiments. It has become clear that among researchers, mainly from the areas of food and agricultural sciences, there is a great need for a reference work on design and analysis of experiments that covers basic concepts. provides examples of varied situations that require the use of the experimental designs and that offers clear steps required for the

> correct analysis execution. This book covers such needs while also sharing codes in the Statistical Analysis Systems (SAS) for each of the

designs covered using Proc Glimmix to perform the analysis. It is hoped that this will allow readers to directly analyze the data from their experiments.