
CHAPTER 5

Correlation and linear regression

5.1 Correlation

Let $(x_1, y_1), (x_2, y_2), \dots, (x_n, y_n)$ represent n points on a scatterplot. Then the **correlation coefficient**, denoted by r , is the average of the products of the z -scores, except that we divide by $n - 1$ instead of n . That is

$$r = \frac{1}{n - 1} \sum_{i=1}^n \left(\frac{x_i - \bar{x}}{s_x} \right) \left(\frac{y_i - \bar{y}}{s_y} \right) \quad (5.1)$$

where s_x and s_y are the standard deviation for x and y respectively.

Equivalently, the correlation coefficient can be given as

$$r = \frac{\sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum_{i=1}^n (x_i - \bar{x})^2} \sqrt{\sum_{i=1}^n (y_i - \bar{y})^2}}$$

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Shasha Hu



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Handbook of Full-Field Optical Coherence Microscopy Arnaud Dubois, 2016-10-14 Full field optical coherence microscopy FF OCM is an imaging technique that provides cross sectional views of the subsurface microstructure of semitransparent objects The technology is based on low coherence interference microscopy which uses an area camera for en face imaging of the full field illuminated object FF OCM benefits from the lateral imaging resolution of optical microscopy along with the capacity of optical axial sectioning at micrometer scale resolution The technique can be employed in diverse applications in particular for non invasive examination of biological tissues This handbook is the first to be entirely devoted to FF OCM It is organized into four parts with a total of 21 chapters written by recognized experts and major contributors to the field After a general introduction to FF OCM the fundamental characteristics of the technology are analyzed and discussed theoretically The main technological developments of FF OCM for improving the image acquisition speed and for endoscopic imaging are presented in part II Extensions of FF OCM for image contrast enhancement or functional imaging are reported in part III The last part of the book provides an overview of possible applications of FF OCM in medicine biology and materials science A comprehensive compilation of self contained chapters written by leading experts this handbook is a definitive guide to the theoretical analyses technological developments and applications of FF OCM Using the rich information the book is replete with a wide range of readers from scientists and physicists to engineers as well as clinicians and biomedical researchers can get a handle on the latest major advances in FF OCM

Fields, Forces, and Flows in Biological Systems Alan J Grodzinsky, 2011-03-08 Fields Forces and Flows in Biological Systems describes the fundamental driving forces for mass transport electric current and fluid flow as they apply to the biology and biophysics of molecules cells tissues and organs Basic mathematical and engineering tools are presented in the context of biology and physiology The chapters are structured in a framework that moves across length scales from molecules to membranes to tissues Examples throughout the text deal with applications involving specific biological tissues cells and macromolecules In addition a variety of applications focus on sensors actuators diagnostics and microphysical measurement devices e g bioMEMs NEMs microfluidic devices in which transport and electrokinetic interactions are critical This textbook is written for advanced undergraduate and graduate students in biological and biomedical engineering and will be a valuable resource for interdisciplinary researchers including biophysicists physical chemists materials scientists and chemical electrical and mechanical engineers seeking a common language on the subject

Optical Measurements, Modeling, and Metrology, Volume 5 Tom Proulx, 2025-08-07 Optical Measurements Modeling and Metrology represents one of eight volumes of technical papers presented at the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics held at Uncasville Connecticut June 13 16 2011 The full set of proceedings also includes volumes on Dynamic Behavior of Materials Mechanics of Biological Systems and Materials Mechanics of Time Dependent Materials and Processes in Conventional and Multifunctional Materials MEMS

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Provides an account of the different areas of physics where transition to ordered behavior occurs and reveals the similarities and differences of involved concepts and techniques **American Journal of Physics** ,1978 *Neutrons, X-rays and Light: Scattering Methods Applied to Soft Condensed Matter* P. Lindner,Th. Zemb,2002-10-30 Scattering experiments using X ray light and neutron sources in historical order are key techniques for studying structure and dynamics in systems containing colliods polymers surfactants and biological macromolecules summarized here as soft condensed matter The education in this field in Europe is very heterogeneous and frequently inadequate which severely limits an efficient use of these methods especially at large scale facilities The series of Bombannes schools and the completely revised and updated second edition of the lecture notes are devoted to a practical approach to current methodology of static and dynamic techiques Basic information on data interpretation on the complementarity of the different types of radiation as well as information on recent applications and developments is presented The aim is to avoid over as well as under exploitation of data **Applications of Mathematics in Modern Optics** William H. Carter,1982 *Principles of Optics* Max Born,Emil Wolf,1970 **Inverse Source Problems in Optics** H.P. Baltes,1978-11 With contributions by numerous experts *Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews* ,1988 **International Urology and Nephrology** ,1983 **Third International Symposium on Precision Mechanical Measurements** ,2006

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