SOME QUERIES ON MATHEMATICS & STATISTICS: Research Methodology

By

JAYDIP DATTA

In this impression we will re-analyse the three Queries as Follows :

Keywords: Mathematics & Chemistry, Statistics Teaching, Covariance Matrix

The Mathematical Chemistry & its Scope – In Physical Chemistry starting from the application of statistical thermodynamics , C and its Data Structure , & Biological application of Mathematical principles.

(https://www.researchgate.net/post/What_are_the_BASIC_mathematical_methods_specially_used_in_COMPUTATIONAL_CHEMISTRY_including_COMPUTATIONAL_BIOLOGY).

Statistics Teaching In Research / Academics – Starting from conventional statistics like SD , RSD , Chi-SQ , t-Hypothesis , ANOVA (Analysis of variance) , Correlation coefficient (r) to Regression Statistics .

(https://www.researchgate.net/post/Whether_Statistics_Teaching_Should_be_Necessary_in_Academics_Research_Industry_Real_life_Experience) .

In addition to a Research Statistics ie Variance Matrix – A square matrix formation of variance with its correlation of significance(r) , Random Vector and its applications . (https://www.researchgate.net/post/What_is_Covariance_Matrix-Explain_its_Utility)

INTEGRATION : The main objective of these mathematical & statistical teaching methods is now a compulsion course work on Physical Science , Biological Science , Social Science and even in Some subjects of humanities like Education , Philosophy & Logic . To analyse **CAUSE & EFFECT logic flow C data structure** is an important factor known as Computational Validation.

REFERENCES :

1. JAYDIP DATTA , THE TRENDS OF MODERN PHYSICAL CHEMISTRY: A DISCLOSURE ,April 2020 ,DOI: [10.6084/m9.figshare.12263126.v2](https://doi.org/10.6084/m9.figshare.12263126.v2) ,License [CC BY-ND 4.0](https://creativecommons.org/licenses/by-nd/4.0/) .(https://www.researchgate.net/publication/340579762_THE_TRENDS_OF_MODERN_PHYSICAL_CHEMISTRY_A_DISCLOSURE?_sg=LExf-8KzFKVAKO1LPC18InRfEV_9zMh28XWMwIDbnySpbAKN7vExK83NaK5-xPVMCVbYH1e6JND2ewhhmikNv5dFpcYUviiEFIHICTqQ.8Vak-2q1zdtMwEc3cFDg0Gk1iDC1nKTXx8OH4N6RtDCbi1OydXO07gvEzIYrae7HfzSayA4mqnnncrEqNWmw5dg)
(DATTA, JAYDIP (2020): THE TRENDS OF MODERN PHYSICAL CHEMISTRY: A DISCLOSURE. figshare. Preprint. <https://doi.org/10.6084/m9.figshare.12263126.v2>).

2. JAYDIP DATTA , A SEMINAR PARTICIPATION ON MATHEMATICS : A PEDAGOGY ,April 2014 ,DOI: [10.13140/RG.2.2.12388.94083](https://doi.org/10.13140/RG.2.2.12388.94083) .(https://www.researchgate.net/publication/334491992_A_SEMINAR_PARTICIPATION_ON_MATHEMATICS_A_PEDAGOGY?_sg=iWB3w9lx4HBomaf8KN22-XEteqn_bGSli0FPswuc865T_tLiTr-LhMnRFTvJO-KFOvec0RMs3dKmB-bwHW2m0zMIJTha60BqffwdZt_B.a8E7jqwXCkWFwuZdpuvf-MFSe2ev3zgwbFSXa4jllLfqZWwV6X7P_3jNngYihdaqlyS9W1lfOizRQP-ETrD5GQ).

3. JAYDIP DATTA , A WORKSHOP on C and C++ : WHAT A CHEMIST SHOULD KNOW ? ,August 2001,DOI: [10.13140/RG.2.2.14024.06405](https://doi.org/10.13140/RG.2.2.14024.06405) .(https://www.researchgate.net/publication/334304518_A_WORKSHOP_on_C_and_C++_WHAT_A_CHEMIST_SHOULD_KNOW?_sg=JAXolYQYgAqL28xiitFYXE5ZFPLoad_YF9hppdQagAKJ1yDnXo-mRW1BH0Kq5fIaOAjdL7mvPnORDnvWmvWkznBOS1OCSFSWkU2ZMK_q.Regp3E5WkmEx6jInezMkP77rmhlMni8Qj8Ef8bkD_wlaNLgdqbDezGr0yhQOSMA_qMXELo1weW7JZhpzAIHZbg) .

4.JAYDIP DATTA , SOME QUERIES ON MATHEMATICS & STATISTICS: A Reference
,March 2020 ,DOI: [10.17605/OSF.IO/NQCMA](https://doi.org/10.17605/OSF.IO/NQCMA) .

(https://www.researchgate.net/publication/340094140_SOME_QUERIES_ON_MATHEMATICS_STATISTICS_A_Reference?_sg=DMnBxqCVOV9sd6k8JU46Bg-T0xtY0mUrYF8nMheenoNP0BWdu-kDa0CwQPLSI_ZPgB9o-7jlgSjURzl5oLcsioP1ggc4bTI8OZiifgsMT.OrBbVtP8R_Qzejj_Pf5sdCqAfOkRzYtcpwgg6vsg5tCH2y2g8TiLBRQbkkPMFGAllq6D3ql8nuj9xuWoZX7g).

5.Jaydip Datta , MATHEMATICS: An Inductive & Deductive Review ,March 2022 ,DOI:

[10.13140/RG.2.2.25473.99683/9](https://doi.org/10.13140/RG.2.2.25473.99683/9) ,License [CC BY-ND 4.0](https://creativecommons.org/licenses/by-nd/4.0/)

(https://www.researchgate.net/publication/339337189_MATHEMATICS_An_Inductive_Deductive_Review?_sg%5B0%5D=bXiGzmCNX08Y1ubPM9qj9ptTeRLy3LCpOSSaU6bchYflrCqrzFvgATmV8_wWiazROSkIESbL2w6Bw4yQteLz-9SuyxMjPiR4YQrgMAZH.ne3SKdpSLqS0TjWfMEMknF0bCWAHxwHy6TWMwFF8XaAEGT8bWgh3QsrDnwuL_SI1XcNN71SC4N0SXs3YE0SyGQ).