



## **Chemistry made easy, new formula for quicker calculation of bonding pattern devised by Tripura professor Dr Arijit Das**

**By  
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He has brought about what may be legitimately termed as a 'mini revolution' in the study of Chemistry for students studying the subject at higher secondary level and onwards : the new formulae devised by him helps students determine the bond order of matters within 3-5 seconds . This is in stark contrast with the oldest Molecular Orbital Theory (MOT) followed for the past one and half century that took at least 5-10 minutes to determine the chemical bond orders of matters. Dr Arijit Das , a Phd in chemistry from Tripura central university and currently head of the department of chemistry in north Tripura's government-run Dharmanagar college, had earlier invented four new formulae for easier calculation of hybridisation and IUPAC method last year to universal acclaim from academics and institutions across the country. He has this time invented three new formulae for quickest calculation to determine the bond order or bonding pattern in matters.

'I had been working on this for a long time and , in fact, was engrossed in this because while teaching students my sole concern has always been to present them with the easiest and quickest methods by which they can learn quickly ; finally I had cracked the bond order problem in December last year ' said Dr Arijit Das , an unassuming man who had donated the entire amount of incentive he had received to Ram Krishna Mission and the chief minister's relief fund. Das , a man from Kailasahar subdivision in Tripura's Unakoti district, is also the son of a chemistry teacher and even now his wife is a teacher of chemistry. Even while working as a scientist in the state forensic laboratory he had been dreaming of joining a college



or university for his first love as a profession has always been teaching. Dr. Das' invention has been recognised by such premier institution as IIT, Kharagpur. 'When my article announcing the new formula for determining the bonding of matters came out in the nationally acclaimed standard journal 'Chemistry Today'-Volume-22(02), page 13-14 in February this year, scholars of chemistry across the country took notice and I started receiving congratulatory and appreciative comments' said Das .In his effusive appreciation Professor P.K.Chattaraj , IIT Kharagpur, said 'excellent method . I went through both of your notes . You have provided useful mnemonics for hybridisation and bond order . Students and teachers will remember these aspects easily'. Similar was the sentiment expressed by Professor Samar Kumar Das who called for inclusion of formulae devised by Dr Arijit Das in the higher secondary school text books and onwards for the benefit of students. 'Quite naturally, I am greatly enthused by these appreciations but I feel happier to think that my works will help the students learn easily' said Dr Das who is also the reviewer of the two London-based internationally acclaimed chemistry journals of the world, 'Inorganic Chemistry Communication' published by ELSEVIER and 'Journal of Co-ordination Chemistry', published by Taylor-Francis.

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