

Biostatistics By Satguru Prasad

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this is a new edition of dr webster s the nirankari sikhs 1979 which has been recognized as single most important work on the history of baba dayal and his successors it updates the earlier edition not only by dealing with the past forty years of nirankari history but also by taking into account subsequent scholarship on the history of sikhism especially during the first half of the nineteenth century further it also provides two additional primary sources of nineteenth century nirankari history along with the nine included in the earlier edition this new edition will be of value not only to those scholars interested in nirankari history but also to those seeking a fuller understanding of the evolution of sikh identity since the nineteenth century sikh identity has been a major issue for nirankaris in recent decades because they have been confused with the sant nirankari mandal which makes no claims to a sikh identity nirankaris like other sikhs base their beliefs and practices upon the guru granth sahib and revere the ten sikh gurus for this reason they view themselves and are considered by other sikhs to be minority group within sikhism they are distinguished from other sikhs most obviously in not fully embracing the khalsa tradition of the sikhs and in having a continuing hereditary line of human gurus how such similarities and differences have affected their own and the very nature of sikh identity over the past two centuries is an important part of this history please note

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this book is the first ever encyclopaedic published account of the kayasth community in india it comprehensively addresses issues pertaining to the community s identity and the heritage its chapters include kayasth community s 1 overview and legal status 2 grand narratives or mythologies 3 history and interstate migration 4 sub jatis and geographical spread 5 illustrious kayasthas 6 chitragupta temples 7 role in freedom struggle 8 sociology of kayasthas 9 kayasth cuisines 10 branding of kayasth among others

what is time how does our sense of time lead us to approach the world how did the peoples of the past view time this book answers these questions through an investigation of the cultures of time in christianity islam buddhism judaism and the australian dreamtime it argues that our contemporary world is blind as to the significance and complexity of time preferring to believe that time is natural and unchanging this is of critical importance to historians since the base matter of their study is time yet there is almost no theoretical literature on time in history this book offers the first detailed historiographical study of the centrality of time to human cultures it sets out the complex ways in which ideas of time developed in the major world religions and the manner in which such conceptions led people both to live in ways very different to our contemporary world and to make very different kinds of histories it goes on to argue that modern scientific descriptions of time such as einsteins theory of relativity lie much closer to the complex understandings of time in religions such as christianity than they do to our common sense notions of time which are centred on progress through a past present and future

developments in intelligent agent technologies and multi agent systems concepts and applications discusses research on emerging technologies and systems based

on agent and multi agent paradigms across various fields of science engineering and technology this book is a collection of work that covers conceptual frameworks case studies and analysis while serving as a medium of communication among researchers from academia industry and government

this is the first cultural and literary history of india and the first world war with archival research from europe and south asia

how does a writer discuss her creative process and her views on a writer s role in society how do her comments on writing relate to her works the hindi writer krishna sobti 1925 2019 is known primarily as a novelist however she also extensively wrote about her views on the creative process the figure of the writer historical writing and the position of writers within the public sphere this study is the first to examine in detail the relationship between sobti s views on poetics as exposed in her non fictional texts and her own literary practice the writer s self representation is analysed through her use of metaphors to explain her creative process sobti s construction of the figure of the writer is then put in parallel with her idiosyncratic use of language as a representation of the heterogeneous voices of her characters and with her conception of literature as a space where time and memory can be held at the same time by delving into sobti s position in the debate around women s writing especially through the creation of a male double the failed writer hashmat and into her views on literature and politics this book also reflects on the literary debates of the post independence hindi literary sphere

this book examines the life and work of a remarkable trade unionist and revolutionary makhan singh laid the foundation for radical trade unionism and influenced the liberation struggle in kenya he actively participated in the struggles of the working classes in india for this the colonial authorities in india and kenya detained him for over 15 years this collection marking 101 years of makhan singh s birth explores different aspects of his life as a father a trade unionist a political activist a poet and a communist committed to social political and economic liberation from colonialism and imperialism his vision his action and his courage are as relevant today as they were in his time

in this comparative study of three modern religious movements lawrence a babb argues that thematic continuities exist between traditional hinduism and its widely divergent modern expressions

muhammad quil qutb shah built the beautiful city of hyderabad as a replica of heaven on earth it was plundered in 1687 by the mughal forces led by aurangzeb after a long period of neglect it rose to be the capital of the expansive deccan province the city witnessed phenomenal expansion under asaf jah i and also the dissipation of

his legacy the author acknowledges the most unique feature of this city the continuance of its cosmopolitan character in the face of communal pressures he attributes this amalgam of hindu and muslim cultures to the mixed parentage hind and muslim of its rulers this volume spans the history of the city from its birth up to the elections of 2004 this book combines the sweep of popular history of the city with the rigour of historiography to make it a fascinating reading of the cultural and political history of the city of hyderabad

panjabi text with parallel english translation of a verse work on 18th century sikh history

when hindus and sikhs become followers of christ what happens next should they join christian churches that often look and feel very unfamiliar to them or to what degree can or should they remain a part of their hindu sikh communities and practices uncomfortable with the answers that were provided to them by christian leaders in northwest india six followers of christ began yesu satsangs that sought to follow christ and the teachings of the bible while remaining connected to their hindu and or sikhcommunities ecclesial identities in a multi faith context contextualises the practices and identities of these leaders and their gatherings situating these in the religious history of the region and the personal histories of the leaders themselves whereas some christians worry that the yesu satsangs and related insider movements are syncretising their beliefs and are not properly identifiable as churches darren todd duerkson analyses the yesu satsang s narratives and practices to find vibrantexpressions of local church that are grappling with questions and tensions of social and religious identity in addition to his ethnographic approach duerkson also uses recent sociological and anthropological theory in identity formation and critical realism as well as discussions of biblical ecclesiology from the book of acts this study will be a helpful resource for those interested in global christianity the practices and identities of churches in religiously plural environments and the creative ways in which christfollowers can engage people of other faiths

¶a¶kara is well known for his advaitika philosophy expounded through his commentaries on the brahma s¶tra upani¶ads and the bhagavadg¶t¶ however his independent works on t¶ntrika philosophy are not commonly acknowledged and appreciated this book seeks to analyze and understand the metaphysical and conceptual framework and nuances of his t¶ntrika philosophy especially with reference to his saundarya lahar¶ apart from this it also examines the compatibility of this t¶ntrika framework with the advaitika framework as elaborated by ¶a¶kara and gau¶ap¶da the course of this enunciation and examination also presents a lucid discussion of the ¶r¶ vidy¶ tradition of tantra as well as the significance of devotion bhakti in ¶a¶kara s philosophy it is a must read for understanding ¶a¶kara s philosophy holistically

when tarsem mittal met kanta aggarwal and they married in 1970 little did they know that they were about to write a remarkable story but the seeds of their story were sown many many years earlier in 1926 when mohanlal aggarwal kanta s grandfather left india and travelled to tanganyika in africa in search of a fortune tarsem and kanta s lives were stormy as trials and tribulations awaited them at every twist and turn their journey took but the couple weathered the storm faced many adversities and emerged triumphant they believe it is satguru jagjit singhji s constant grace in their lives that has brought them so far from a single petrol station in the 70s to hundreds today they also own rice and edible oil mills they have steered their family business into a formidable transglobal energy agriculture and logistics conglomerate spread across africa the middle east and india the mount meru group this is their extraordinary story

amma s enlightening conversations from the year 1984 have been faithfully recorded in the awaken children series volume 4 we can find amma s teachings on a variety of subjects such as beyond duality spiritual qualities of women humility suffering of the poor sadhana self surrender and love do not laugh at others believers and non believers difference between a devotee and a disciple innocent faith and how to study the scriptures concentration and meditation infinite masks of the mother questions asked by westerners formation of qualities in children fear of surrendering householders and spiritual life oneness with god through love work as worship the nature of the guru spiritual love and worldly love do not judge others inevitability of death remembering god while eating food a question about tantra mind and no mind lovingly translated by swami amritaswarupananda published by the disciples of mata amritanandamayi devi affectionately known as mother or amma the hugging saint

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Unpacking the Milligray: A Journey into the World of Radiation Measurement

Imagine a tiny, invisible world teeming with energy, constantly bombarding us from all directions. This world is the realm of ionizing radiation, a powerful force capable of altering atoms and molecules. While often perceived as dangerous, radiation is a fundamental part of our environment, and understanding its effects is crucial. One key unit in this understanding is the milligray (mGy), a seemingly simple term that unlocks a deeper comprehension of radiation dosage. This article will delve into the fascinating world of the milligray, explaining its meaning, applications, and significance.

What is a Gray (Gy) and its Milligray (mGy) Subunit?

The gray (Gy) is the standard unit of absorbed dose in the International System of Units (SI). It quantifies the amount of ionizing radiation absorbed by a material, specifically the energy deposited per unit mass. Imagine a beam of radiation hitting a kilogram of tissue. The gray measures the energy deposited by that radiation within that kilogram. One gray is equal to one joule of energy absorbed per kilogram of matter ($1 \text{ Gy} = 1 \text{ J/kg}$). The milligray (mGy) is simply one-thousandth of a gray ($1 \text{ mGy} = 0.001 \text{ Gy}$). This smaller unit is often preferred when dealing with smaller radiation doses, making the numbers more manageable and easier to understand in everyday contexts. Think of it like millimeters compared to meters – both measure length, but one is more practical for measuring small objects.

Types of Ionizing Radiation and their Effects

Ionizing radiation encompasses various forms, including: X-rays and Gamma rays: High-energy electromagnetic radiation often used in medical imaging and radiotherapy. Alpha particles: Relatively heavy and slow-moving particles with a high ionizing power, but they are easily stopped by a sheet of paper or the outer layer of skin. Beta particles: Lighter and faster than alpha particles, penetrating further than alpha particles but still easily shielded. Neutrons: Uncharged particles capable of penetrating deeply into materials. The biological effects of ionizing radiation depend on several factors, including the type of radiation, the dose received, and the duration of exposure. High doses can cause acute radiation sickness, while lower doses over longer periods can increase the risk of cancer. The milligray provides a

standardized way to quantify these doses and assess potential risks.

Measuring Radiation: From Milligray to Sieverts

While the gray measures absorbed dose, it doesn't fully capture the biological impact of different types of radiation. Some types are more damaging to living tissue than others, even if they deposit the same amount of energy. This is where the sievert (Sv) comes in. The sievert is the unit of equivalent dose, which accounts for the differing biological effectiveness of various radiations. It takes the absorbed dose (in grays) and multiplies it by a weighting factor that reflects the relative harm caused by a specific type of radiation. For example, alpha radiation has a higher weighting factor than gamma radiation. Therefore, while mGy measures the amount of energy absorbed, it doesn't directly translate to the risk of biological harm. The equivalent dose in millisieverts (mSv) provides a more accurate picture of the potential health consequences.

Real-Life Applications of the Milligray

The milligray plays a vital role in various fields: **Medical Imaging:** X-ray and CT scans deliver small doses of radiation, typically measured in mGy. Understanding these doses helps assess the risk-benefit ratio of these procedures. **Radiation Therapy:** Cancer treatment using radiation therapy involves carefully controlled doses measured in grays and milligrays to target cancerous cells while minimizing damage to healthy tissues. **Nuclear Medicine:** Procedures involving radioactive isotopes often utilize milligray measurements to monitor and manage radiation exposure. **Environmental Monitoring:** Measuring background radiation levels in the environment helps assess potential risks and ensure public safety.

Reflective Summary: Understanding Radiation Dosage

The milligray, a subunit of the gray, serves as a fundamental unit for measuring absorbed radiation dose. While seemingly simple, it is a critical element in

understanding the effects of ionizing radiation across numerous disciplines. It allows us to quantify the energy deposited by radiation in a specific mass, aiding in risk assessment and the development of safety protocols in medicine, environmental monitoring, and nuclear technology. Remembering that the milligray focuses on absorbed dose and not biological effect – the sievert being more relevant for biological risk assessment – is crucial for a comprehensive understanding of radiation measurements.

FAQs

1. What is a safe level of radiation exposure in milligrays? There's no single "safe" level. The risk of biological effects increases with dose, but low doses are generally considered to have minimal risk. Regulatory bodies set limits for occupational and public exposure. 2. Can I get a radiation dose from everyday sources? Yes, we are constantly exposed to low levels of background radiation from natural sources like cosmic rays and radioactive materials in the Earth. 3. How is radiation dose measured in medical procedures? Medical professionals use dosimeters and other devices to estimate the radiation dose received during procedures like X-rays and CT scans. 4. What are the long-term effects of low-dose radiation exposure? The long-term effects of low-dose radiation exposure are a subject of ongoing research. While the risk of cancer increases with cumulative dose, the relationship is complex and not fully understood. 5. What should I do if I'm concerned about radiation exposure? If you have concerns about your exposure to radiation, consult with a medical professional or radiation safety expert. They can provide personalized advice and guidance based on your specific situation.

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