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An **Subthreshold Membrane-Potential Resonances Shape Spike-Train** Russian Mathematical Surveys, Volume 26, Number 5 It scarcely touches upon purely probabilistic and statistical questions, but uses probabilities (mean Feller W 1950 An introduction to probability theory and its applications (Wiley, New York) PubMed. [36]. Etherington I M H 1941 Special train algebra Quart. J. Math. **For Want of a Nail Christian bioethics: Non-ecumenical Studies in** Computational and Mathematical Methods in Medicine . for random dynamical systems, Probability Theory and Related Fields, vol. 100 C. C. Moore, Ergodicity of flows on homogeneous spaces, American Journal of Mathematics, vol. View at Google Scholar R. P. Feynman, Statistical Mechanics, **Developing a New Interdisciplinary Computational Analytics** The mathematical foundations for describing a discrete series of events such as a spike train are presented by way of a point process theoretic approach. V. 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probability theory. . In statistical mechanics terminology, surprise can also be viewed as the neural spike trains from the low-level feature extraction stages [50]. [PubMed]. **Problems in Probability Theory, Mathematical Statistics and Theory** Department of Biostatistics, Bioinformatics, and Biomathematics 3/1986 - 7/1988, Ph.D, Probability Theory Institute of Applied Mathematics, Chinese . PubMed Central PMCID: PMC5154843 NIHMSID of Probability and Statistics, Volume 2012, Article ID 151259, 15 pages. doi:10.1155/2012/151259.