



MATHEMATICAL THEORY OF
CONNECTING NETWORKS
AND TELEPHONE TRAFFIC

Volume 17

V. E. Beneš

Mathematical Theory Of Connecting Networ

Murray S. Klamkin



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Entropy Measures, Maximum Entropy Principle and Emerging Applications Karmeshu,2012-10-01 The last two decades have witnessed an enormous growth with regard to applications of information theoretic framework in areas of physical biological engineering and even social sciences In particular growth has been spectacular in the field of information technology soft computing nonlinear systems and molecular biology Claude Shannon in 1948 laid the foundation of the field of information theory in the context of communication theory It is indeed remarkable that his framework is as relevant today as was when he first proposed it Shannon died on Feb 24 2001 Arun Netravali observes As if assuming that inexpensive high speed processing would come to pass Shannon figured out the upper limits on communication rates First in telephone channels then in optical communications and now in wireless Shannon has had the utmost value in defining the engineering limits we face Shannon introduced the concept of entropy The notable feature of the entropy framework is that it enables quantification of uncertainty present in a system In many realistic situations one is confronted only with partial or incomplete information in the form of moment or bounds on these values etc and it is then required to construct a probabilistic model from this partial information In such situations the principle of maximum entropy provides a rational basis for constructing a probabilistic model It is thus necessary and important to keep track of advances in the applications of maximum entropy principle to ever expanding areas of knowledge *Diakoptics and Networks* Happ,1971-03-20

Diakoptics and Networks Weakly Connected Neural Networks Frank C. Hoppensteadt,Eugene M. Izhikevich,2012-12-06 This book is devoted to an analysis of general weakly connected neural networks WCNNs that can be written in the form $\dot{x}_i = -x_i + \sum_{j=1}^n g_{ij} f_j(x_j)$ Here each $x_i \in \mathbb{R}$ is a vector that summarizes all physiological attributes of the i th neuron n is the number of neurons f_i describes the dynamics of the i th neuron and g_{ij} describes the interactions between neurons The small parameter indicates the strength of connections between the neurons Weakly connected systems have attracted much attention since the second half of seventeenth century when Christian Huygens noticed that a pair of pendulum clocks synchronize when they are attached to a light weight beam instead of a wall The pair of clocks is among the first weakly connected systems to have been studied Systems of the form $\dot{x} = -x + \epsilon f(x)$ arise in formal perturbation theories developed by Poincare Liapunov and Malkin and in

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