

$$v_i^* \frac{\partial h_i}{\partial \mathbf{x}_k} + \sum_{j=1}^m u_j^* \frac{\partial g_j}{\partial \mathbf{x}_k} = 0$$
$$\mathbf{x}^{(k+1)} = \mathbf{x}^{(k)} + \alpha_k \mathbf{d}^{(k)}$$
$$\Phi_{k+1,j} \leq \Phi_k - t_j \beta_k$$
$$\Phi(\mathbf{x}, r) = f(\mathbf{x}) + \sum_{i=1}^p \left[v_i h_i(\mathbf{x}) + \frac{1}{2} r h_i^2(\mathbf{x}) \right]$$

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International Symposium on Optimum Structural Design, October 19-22, 1981, Tucson, Arizona, 1981 **Music-Inspired Harmony Search Algorithm** Zong Woo Geem, 2009-05-12 Calculus has been used in solving many scientific and engineering problems For optimization problems however the differential calculus technique sometimes has a drawback when the objective function is step wise discontinuous or multi modal or when decision variables are discrete rather than continuous Thus researchers have recently turned their interests into metaheuristic algorithms that have been inspired by natural phenomena such as evolution animal behavior or metallic annealing This book especially focuses on a music inspired metaheuristic algorithm harmony search Interestingly there exists an analogy between music and optimization each musical instrument corresponds to each decision variable

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