



Discharge-Duration-Frequency Surfaces: An Intergrating Approach

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Discharge-Duration-Frequency curves are a concise form of capturing the information of hydrological-engineering interest from marginal and joint probability distribution functions of a river-discharge stochastic process. They are nomograms, obtained from constant-T sections of $Q(T,D)$ surfaces. In the present work, we propose the direct construction and use of $Q(D,P)$ surfaces that allow for an easy swap between maxima and minima of discharges of different durations. They are hereby comprehensive in scope and appropriate for engineering use, which we illustrate by an example from the Villa de Fuentes (Mexico) hydrological gauging station.