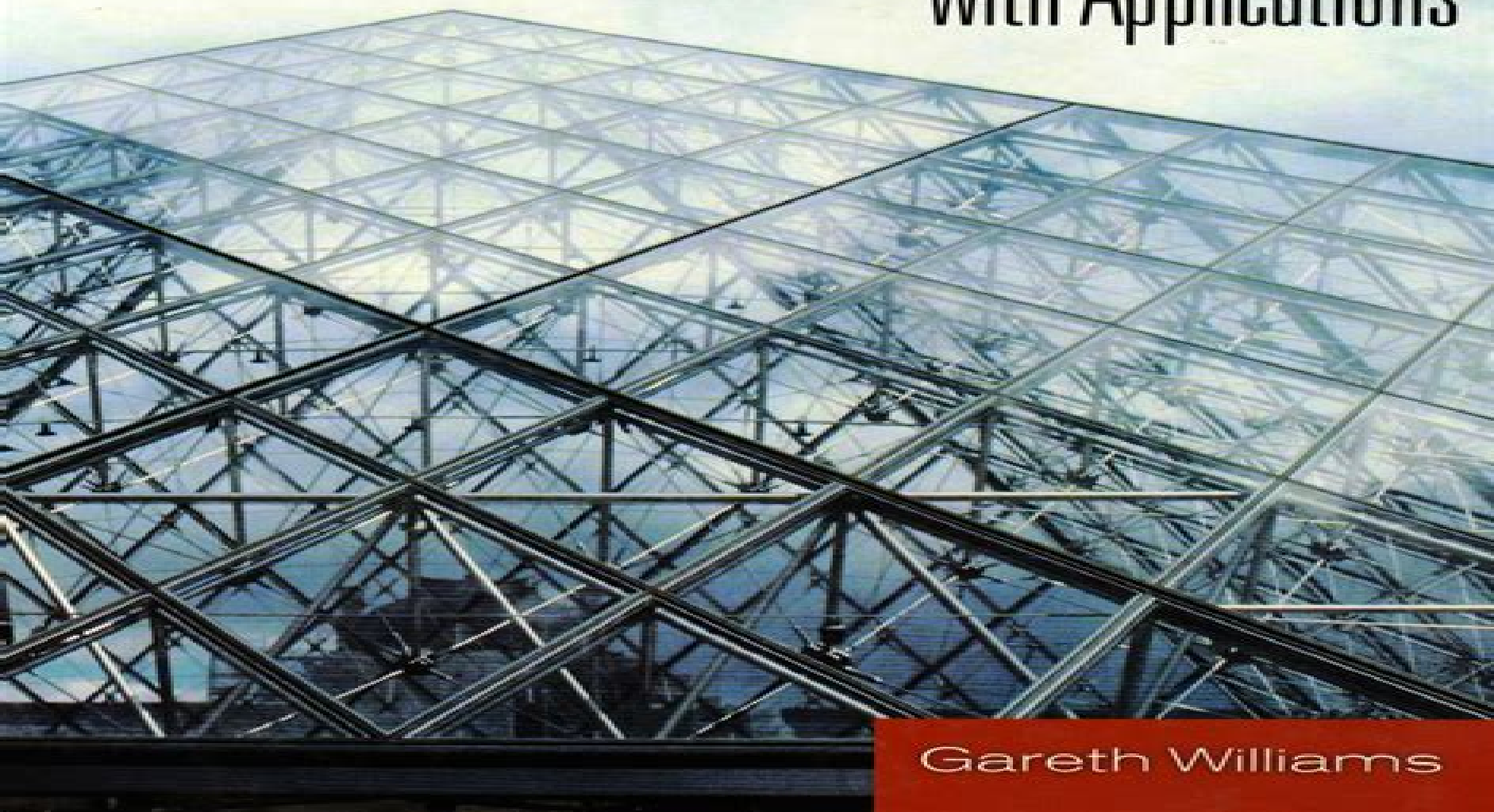


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distributions on the space of functions are given by stochastic processes the sought function is proposed to be a sample function of a stochastic process This process is chosen as one that imposes minimal constraints on the sought function identified as a Gaussian Process GP in the book Thus the sought function can be inferred upon as long as the co variance function of the underlying GP is learnt given the available training set The book presents probabilistic techniques to undertake said learning within the challenges borne by the data and illustrates such techniques on real data Learning of a function is always followed by closed form prediction of the mean and dispersion of the output variable that is realised at a test input To help with the background the book includes reviews on stochastic processes and basic probability theory This will render the first half of the book useful for students across disciplines while the latter half will be appreciated by students of numerate subjects at the postgraduate level or higher including students of computational sciences statistics and mathematics

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