

Here M'= Ma + Eab Eb 5' (7/5-M
and $\mathcal{E}' = \mathcal{E}_{aa} - \mathcal{E}_{ab} \mathcal{E}_{bb}' \mathcal{E}_{ba}$
Since a has been marginalized out no need to consider it.
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P(Xa/Xb) n P(N[M', E]
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2) Given $J(\omega) = f(\omega^T \phi(x_1), ..., \omega^T \phi(x_N))$ + $g(\omega^T \omega)$ g(.) is a monotonically increasing with $w = \sum_{n=1}^{\infty} \alpha_n \phi(x_n) + \omega_1$ $J(\omega) = f(\omega^{\dagger} \phi(x_1), \dots, \omega^{\dagger} \phi(x_n))$ $\Rightarrow f(+) + g(\omega + (2, \phi(x)) + 2\phi(x)) + 2\phi(x)$ $+ - 2h\phi(x) + \omega_1$ $T = \omega^{T} \stackrel{R}{\leq} 2n \phi(\chi_{n}) + \omega_{1}$ where 2n = 1 $J(\omega) = f(\omega^{T} \beta(x_{1}) - \omega^{T} \phi(x_{n})) + g(\omega^{T} (2\beta(x_{1})) + - 2n \phi(x_{n}) + \omega_{1})$ This signifies the linearity of the basis function

\$ (xn) for n=1,2,N
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Each of these J (w) takes
in a linear way.
in a linear way.
Hence proved, that the value
of w that minimizes J(w) takes
the form of a linear combination
of the basis functions $\phi(2n)$
for = 1 N
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+((a) p te, (x) p te) += (a) to
p-+ ((n) 0 as + ((n) 0,5) (u) 5
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