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element), or to balance the fluxes through the cell sides (finite volume). The finite element approach itself comes in two basic forms. the variational, where the PDEs are replaced by a more fundamental integral variational pnnciple (from which they arise through the calculus of variations), or the weighted residual (Galerkin) approach, in which the PDEs are multiplied by certain functions and then ...

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In structured surface grid generation, the actual grid generation process is the generation of a mapping from the discrete rectangular computational $(\xi,\eta)$ domain to the parametric $(u,v)$ domain, which results in the composite map $x(\xi,\eta) = (x(\xi,\eta), y(\xi,\eta), z(\xi,\eta))$ (see Figure 9.1). As seen in the figure, the physical space is a subset of IR 3

### Chapter 9: Surface Grid Generation Systems

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