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W is isotropic iff $W(F) = \Phi(v_1, v_2, v_3)$, where Φ is symmetric with respect to permutations of the v_i .

Proof. Suppose W is isotropic. Then $F = RDQ$ for $R, Q \in SO(3)$ and $D = \text{diag}(v_1, v_2, v_3)$. Hence $W = W(D)$. But for any permutation P of $1, 2, 3$ there exists \tilde{Q} such that $\tilde{Q} \text{diag}(v_1, v_2, v_3) \tilde{Q}^T = \text{diag}(v_{P1}, v_{P2}, v_{P3})$. The converse holds since $Q^T F T F Q$ has the

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2 1. Description of Three - Dimensional Elasticity
Figure 1.1.1: Let $\phi: BR \rightarrow R^3$ be a sufficiently regular mapping. It is said to be a deformation if (1.1-2) $\det(\nabla\phi) > 0$ where $\nabla\phi$ is called the deformation gradient and is a matrix given by $\nabla\phi = \begin{bmatrix} \phi_1 X_1 & \phi_1 X_2 & \phi_1 X_3 \\ \phi_2 X_1 & \phi_2 X_2 & \phi_2 X_3 \\ \phi_3 X_1 & \phi_3 X_2 & \phi_3 X_3 \end{bmatrix}$

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