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$$\int_{\Omega} |\nabla u|^2 dx + \int_{\Omega} u^2 dx \leq \int_{\Omega} f u dx + \int_{\Omega} g^2 dx$$
 (4) From (4) we get

$$\int_{\Omega} |\nabla u|^2 dx + \int_{\Omega} u^2 dx \leq \int_{\Omega} f u dx + \int_{\Omega} g^2 dx$$
 (5) Integrating Over $(0;t)$, We Obtain (5). The Last Energy Estimate (6) Can Be Proved Similarly By Choosing $v = u$
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