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3 The Inequality (4) Is An Easy Consequence Of The Following Inequality  $\int_0^t \int_{\Omega} |\nabla u|^2 dx dt \leq \int_0^t \int_{\Omega} |\nabla v|^2 dx dt + \int_0^t \int_{\Omega} |f|^2 dx dt$ ; We Get  $\int_0^t \int_{\Omega} |\nabla u|^2 dx dt \leq \int_0^t \int_{\Omega} |\nabla v|^2 dx dt + \int_0^t \int_{\Omega} |f|^2 dx dt$ ; Integrating Over  $(0;t)$ , We Obtain (5). The Last Energy Estimate (6) Can Be Proved Similarly By Choosing  $v = u$  And Left ... 2th, 2024.

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