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Boundedness of the Wavelet Transform in Certain Function Spaces

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Abstract: Using convolution transform theory boundedness results for the wavelet transform are obtained in the Triebel space- $L_p^{\Omega, k}$, Hörmander space- $B_{p, q}(\mathbb{R}^n)$ and general function space- $L_{\infty, k}$, where k denotes a weight function possessing specific properties in each case.



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