

1106-R5-1592      **Helmut Knaust\*** ([hknaust@utep.edu](mailto:hknaust@utep.edu)), Department of Mathematical Sciences, The University of Texas at El Paso, El Paso, TX 79968. *Multi-Resolution Analysis for the Haar Wavelet: A Minimalist Approach.*

Multi-Resolution Analysis was developed in the 1980s by Mallat and Meyer as a tool to design wavelets. Even though the wavelets course I teach has a very applied flavor and is aimed at introducing my students to image processing applications, I include an introduction to multi-resolution analysis, albeit for the Haar wavelet only. This approach is expeditious, but nevertheless uncovers the connections between the continuous and discrete case, and reinforces the fundamental notion of orthogonality. (Received September 14, 2014)