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A new approach to sparse decomposition of nonstationary signals with multiple scale structures using self-consistent nonlinear waves

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Highlights:

1. A discussion on the common assumptions in sparse decomposition methods.
2. Analytical derivation and framework construction of a new sparse decomposition (SD) method.
3. Establishment of the core concepts of the new SD approach and possible extensions.
4. Performance comparison between the new SD and the empirical mode decomposition.

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