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Maarten V De Hoop* (mdehoop@math.purdue.edu), Department of Mathematics, Purdue University, 150 North University Street, West Lafayette, IN 47907-2067. *Curvelets and the one-way acoustic wave equation*. Preliminary report.

We study how to derive numerical solutions of the one-way acoustic wave equation using expansions of the acoustic pressure based on curvelets. Our implementation utilizes the Fast curvelet transform. (Received September 28, 2005)