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**Newton method in the context of quaternion analysis.** (English) Zbl 1334.65085  
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Summary: In this paper we propose a version of Newton method for finding zeros of a quaternion function of a quaternion variable, based on the concept of quaternion radial derivative. Several numerical examples involving elementary functions are presented.

**MSC:**

65H05 Numerical computation of solutions to single equations

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**Keywords:**

Newton method; quaternions; radial derivative

**Software:**

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**References:**

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