May 2012

Volume 138, Issue 5, pp. 391-554

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J. Eng. Mech. 138(5), 491-501 (2012);

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J. Eng. Mech. 138(5), 502-507 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000348

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Kilje Jung, Ho-Kyung Kim, and Hae Sung Lee

J. Eng. Mech. 138(5), 519-529 (2012);

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Ziad N. Tagieddin, George Z. Voyiadjis, and Amin H. Almasri

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| Cited 3 times

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Rongqiao Xu and Dequan Chen

J. Eng. Mech. 138(5), 542-551 (2012);

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TOP 1

Discussion of "Head Reconstruction Method to Balance Flux and Source Terms in Shallow Water Equations" by Enrico Creaco, Alberto Campisano, Alexander Khe, Carlo Modica, and Giovanni Russo

Dongfang Liang

J. Eng. Mech. 138(5), 552-553 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000229

| Cited 1 time

Online Publication Date: 16 Apr 2012

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Closure to "Head Reconstruction Method to Balance Flux and Source Terms in Shallow Water Equations" by Enrico Creaco, Alberto Campisano, Alexander Khe, Carlo Modica, and Giovanni Russo

E. Creaco

J. Eng. Mech. 138(5), 553-554 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000388

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