


## January 2015

### Volume 141, Issue 1

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[http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000268](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000268)  
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[http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000267](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000267)  
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#### Hydrodynamic Characteristics of a Suspended Curtain for Sediment

**Trapping**[Huakun Wang, Feng Si, Gengsheng Lou, Wenyu Yang, and Guoliang Yu](#)

J. Waterway, Port, Coastal, Ocean Eng. 141(1), 04014030 (2015) ;

[http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000270](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000270)

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J. Waterway, Port, Coastal, Ocean Eng. 141(1), 05014003 (2015) ;

[http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000261](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000261)

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[Abstract](#) | [Full Text HTML](#) | [References](#) | [PDF \(2904 KB\)](#) | [Permissions](#)[+ Show Abstract](#)**TECHNICAL NOTES**TOP **Semianalytical Solution to the Wave-Induced Dynamic Response of Saturated Layered Porous Media**[Mehmet Barış Can Ülker](#)

J. Waterway, Port, Coastal, Ocean Eng. 141(1), 06014001 (2015) ;

[http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000272](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000272)

Online Publication Date: 30 Jun 2014

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- This paper proposes a semianalytical solution to the dynamic response of saturated-layered porous media under harmonic waves. The equations governing the dynamics of porous media are written in their fully dynamic form and possible simplifications are introduced based on the presence of inertial terms associated with both solid and fluid phases, called *formulations*. The semianalytical solutions to the response of multiple layers with various physical properties are presented in terms of normalized pore pressure and shear stress variations considering a set of nondimensional parameters and their respective ratios. The effects of layering and inertial terms on the response are also presented.