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» Abstract

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Category	Marine, Land and Aviation Applications
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Title of the Paper	Design of GPS Signal Simulation Environment Based on Real World
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Abstract	<p>The GPS simulators are used for development and production testing of satellite navigation equipment, signal researches and for integration studies. The simulator supplies the environment of a navigation receiver installed on dynamic platform. RF signals of the simulator are used for exhibiting the effect of high-dynamic host vehicle motion, navigation satellite motion and Ionospheric and Tropospheric effects. But the error models supplied from the GPS simulator are different from the error elements offered from the navigation messages in the real world. Therefore, this paper proposes the method for configuring the optimal environment for the GPS simulation based on real world data. And it also presents the method for implementing the error elements with Ephemeris, Ionospheric and Tropospheric errors, and satellite clock errors in the GPS simulator. It presents the test results based on the proposed simulation environment.</p>
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