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# Dynamic loading of the compression chamber and the tube of a ballistic installation

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*The paper considers the problem of defining the stress-strain state (SSS) of the elastic hollow cylinder, having a traveling wave with a constant velocity and radial load. The traveling pulse is of a rectangular shape. The calculations were made on the traveling load and were used for defining the SSS of the tube. Loading is produced inside the compression chamber of the cylinder. There were obtained parameters depending on the speed of pressure pulse movement, its width for different sizes of the cylinder. The author presents parameter dependences of SSS for the general problem, which is solved by superposition of solutions of SSS for real installation at the loads given above.*

**Keywords:** elastic hollow cylinder, traveling load, radial load, superposition of solutions.

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