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Stangeland, M., "Turbopumps for Liquid Rocket Engines," SAE Technical Paper 921043, 1992, doi:10.4271/921043.

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Abstract : Theoretical and design principles of liquid rocket engines are presented. turbopump and fuel feed pressurization systems,

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One of such cases are rocket engines which need to pump fuel and oxidizer into their combustion chamber. This is necessary for large liquid rockets,

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### **Single-shaft turbopumps in liquid rocket engines**

Single-Shaft Turbopumps in Liquid Rocket Engines Y. Demyanenko<sup>1</sup>, A. Dmitrenko<sup>2</sup>, V. Rachuk<sup>3</sup>, A. Shostak<sup>4</sup> Konstruktorskoe Buro Khimavtomatiyi, Voronezh, Russia

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In turbopumps for liquid propellant rocket engines, Alta s experimental work on rocket propulsion turbopumps is complemented and supported by an integrated set

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Liquid rocket engines. We started to do the math, and explored standard pump options for conversion to turbopump use. This research showed that,

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16.512, Rocket Propulsion Lecture 26: Turbopumps Turbopump Components The mechanical components of the pressurization cycle  $p_{GH} m i$ , the head rise