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THE DYNAMIC RESPONSE OF A THIN METALLIC AIR-BACKED PLATE TO
A NEARFIELD UNDERWATER EXPLOSION

BY

VALENTINA ROSSELL

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REQUIREMENTS FOR THE DEGREE OF

MASTER OF SCIENCE

IN

MECHANICAL ENGINEERING AND APPLIED MECHANICS

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UNIVERSITY OF RHODE ISLAND

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MASTER OF SCIENCE

OF

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ABSTRACT

An experimental investigation was conducted at the air-backed UNDEX facility located at the Dynamic PhotoMechanics laboratory. A metallic structure was subjected to a shockwave and bubble pulsation loadings. A temporal-physical compilation of data was collected to analyze the structure response as well as the medium around it.

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