Suitable Impressive Thesis Title



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A thesis submitted for the degree of *Dr. rer. nat.*

Acknowledgements

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Kurzfassung

Dies ist ein deutscher Abstrakt.

Abstract

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Contents

Li	st of	Symbols	iii
Li	st of	Abbreviations	v
Li	st of	Figures	vii
1	Int	roduction	1
	1.1	Background and Motivation	1
	1.2	Literature Review	2
2	The	eory of ion beam sputtering	3
	9 1	Tost section	3

List of Symbols

Symbol	Description	Unit
a	acceleration	${ m m\ s^{-2}}$
${f F}$	force	N
\dot{m}	mass-flow	${\rm kgs^{-1}}$
X	position	m

List of Abbreviations

Abbr.	Description
AIREBO	Adaptive intermolecular reactive bond order
CEX	Charge exchange
CP	Chemical propulsion

List of Figures

1.1	Schematic of an elec	rostatic propulsion devic	ce
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- D. Goggins

1 Introduction

Contents

1.1	Background and Motivation	1
1.2	Literature Review	9

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$$T = \dot{m}u_{\rho} \tag{1.1}$$

A schematic of the working principle of an electrostatic thruster is illustrated in Figure 1.1.

1.1 Background and Motivation

The lifetime of most EP devices is limited by erosion becoming so severe, that the accelerating mechanism does not work properly anymore.

2 1.2. Literature Review

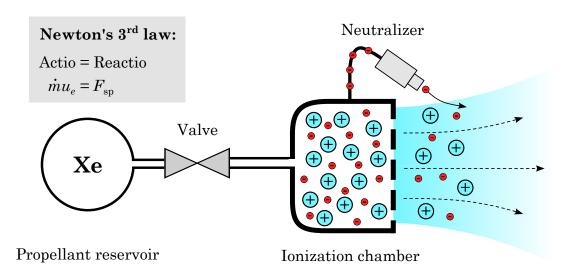


Figure 1.1: Schematic of an electrostatic propulsion device.

1.2 Literature Review

Because there is limited literature available on MD simulations of EP plasma sputtering according to Jackson *et al.* [1], this literature review includes publications from various fields where similar analyses were conducted [2].

Keep your eyes on the stars, but remember to keep your feet on the ground.

— T. Roosevelt

2

Theory of ion beam sputtering

Contents				
2.1	Test section			

Surfaces subjected to ion irradiation undergo a cascade of energetic displacement on the atomic scale.

2.1 Test section

Bibliography

- [1] J. Jackson, S. Miller, J. Cassady, E. Soendker, B. Welander, M. Barber, and P. Y. Peterson, "13kw advanced electric propulsion flight system development and qualification," The 36th International Electric Propulsion Conference, Electric Rocket Propulsion Society, 2019.
- [2] **B. Harvey**, "The legacy," Russian Planetary Exploration: History, Development, Legacy, Prospects, pp. 325–331, 2007.