

ย้านักหอสมุด มหาวิทยาลัยเขียงใหม่ . \$ 16698863 . \$ 16698864 . \$ 16698864 . \$ 16698865



Ignition!

An Informal History of Liquid Rocket Propellants

BY JOHN D. CLARK

Those who cannot remember the past are condemned to repeat it.

GEORGE SANTAYANA



New Brunswick, Newark, and Camden, New Jersey, and London

Contents

	In Re John D. Clark Preface	xi xiii
1	How It Started	I
2	Peenemunde and JPL	9
3	The Hunting of the Hypergol	20
4	and Its Mate	41
5	Peroxide—Always a Bridesmaid	59
6	Halogens and Politics and Deep Space	65
7	Performance	82
8	Lox and Flox and Cryogenics in General	94
9	What Ivan Was Doing	105
10	"Exotics"	110
11	The Hopeful Monoprops	120
12	High Density and the Higher Foolishness	159
13	What Happens Next	173
	Glossary	177
	Index	181