

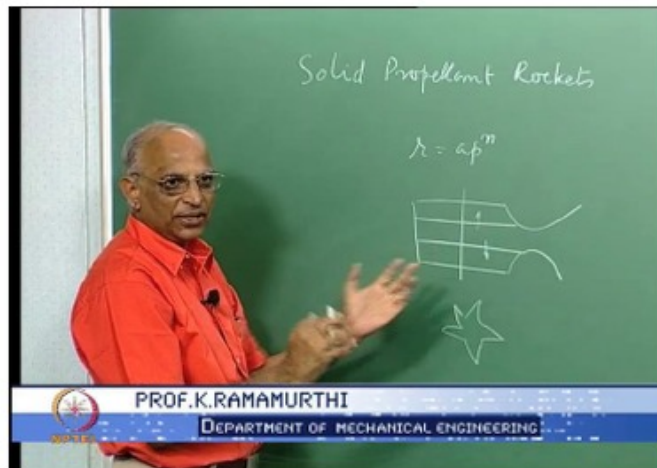


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Rocket Propulsion
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Lecture 25
Burning Surface Area of Solid Propellant Grains

(Refer Slide Time: 00:15)



In today's class, we continue with our discussions on solid propellant rockets. By now, we know what the burning rate is; it is the linear regression law r is equal to $a p$ to the power n ; this is applicable for both composites and double base propellants and also the other forms of may be composite modified double base and also nitramine propellants. What we were discussing is, how do we assemble the propellant grain and what should be the configuration of the grain. We saw in the last class was if we have something like a radial burning grain, we would like to wrinkle this surface into something like a star or some other configuration, such that we get increased burning surface area and therefore, increased pressure and therefore increased thrust. The aim is to get a large thrust.

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