

Rocket Design: The Nozzle



Part III

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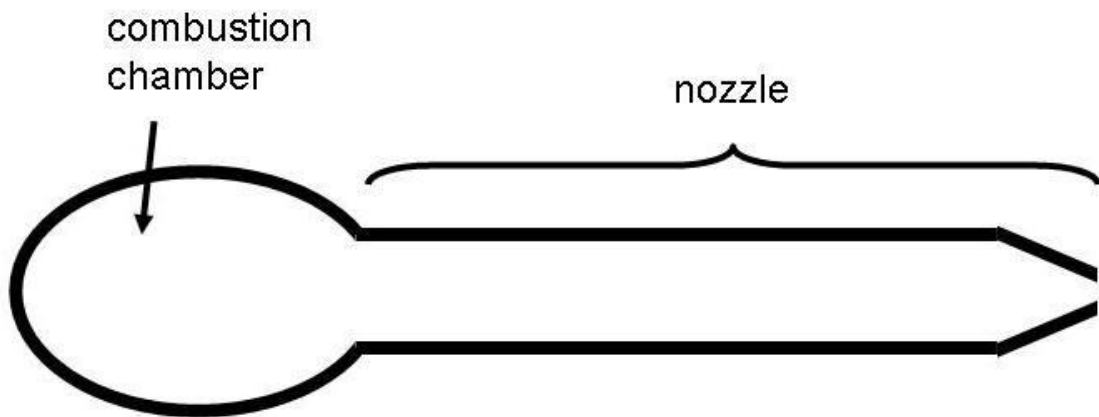
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Chapter 1



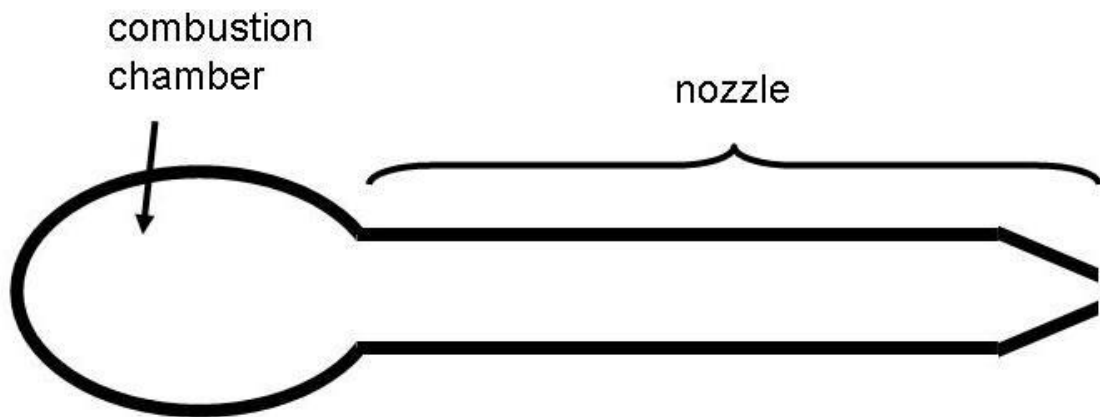
*The third part is getting the **shape** of the nozzle right*

I've given the principles in Parts I & II. Have the nozzle taper inwards and make the nozzle long enough so that the gases have stopped accelerating.



Begin by keeping the nozzle quite wide and let it run long enough so that the gases have stopped accelerating

That is a long nozzle. Expect it to be far longer than existing nozzles.



Once the gases have stopped accelerating, then and only then taper in the nozzle

That gives an extra burst of acceleration just before the spent gases are expelled from the nozzle.



*If you take that approach, you will get an increase of power by about **twelve-fold***

And all it took was *a change in the shape of the nozzle.*

Too much pressure!



Understand?

Dr Evil



No-one can stand against me!

No-one!

The Love Guru – When Love Goes Wrong, Nothing Goes Right

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End of Part III