

Re: How Rockets Differ From Jets

Source: <http://sci.tech-archive.net/Archive/sci.space.shuttle/2005-10/msg00431.html>

- *From:* Fred J. McCall <fmccall@xxxxxxxxxxxxx>
 - *Date:* Mon, 24 Oct 2005 14:48:24 GMT
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"tomcat" <jlavine@xxxxxxxxxxxxx> wrote:

:Fred J. McCall wrote:

> :One of the nice things about a hypersonic plane is that winds have
> :little affect on it. A mach 15 airflow is so much greater than a
> :measly 200 knot wind that it is scarcely felt.

>

> There is a big difference between 'rigid airship' and 'hypersonic
> plane'. Pick one.

>

> :Not to mention the 5 million pounds of thrust an 11 SSME engine
> :spaceplane would have.

>

> And I'm sure the magic would be a big helper, too.

>

> :Military jet pilots rarely feel the weather in the newer fighter
> :aircraft. The one exception is when they are flying slow to land or
> :takeoff.

>

> Know a lot of military jet pilots, do you? I do and they worry a LOT
> about winds aloft.

:

:Nothing magical about a SSME. Rocketdyne makes them. They work. They
:produce 450,000 pounds of thrust each at sea level, 500,000 pounds of
:thrust each in Space.

I don't see any spaceplanes using 11 of them flying to Venus today.
Perhaps you do?

:They call me "pedal to the metal" for a reason. I don't slow down for
:thunderheads, or try to go around them. Sometimes I'm referred to as
:the "what me worry? guy". I don't worry much.

"There are old pilots and there are bold pilots. There are no old
bold pilots."

:A good spaceplane would be a combination of extremely light materials,
:like carbon nanotube fabric, and . . . vacuum. It just might float.

Re: How Rockets Differ From Jets

In which case it is not acting as a spaceplane and will be in pieces from forces hitting it from the wrong directions.

Engineering ain't magic, Tomcat.

—

"The reasonable man adapts himself to the world; the unreasonable man persists in trying to adapt the world to himself. Therefore, all progress depends on the unreasonable man."

—George Bernard Shaw

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• *Follow-Ups:*

- ◆ ***Re: How Rockets Differ From Jets***

◇ *From:* tomcat

- ◆ ***Re: How Rockets Differ From Jets***

◇ *From:* Brad Guth

• *References:*

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- ◆ ***Re: How Rockets Differ From Jets***

◇ *From:* Glenn Shaw

- ◆ ***Re: How Rockets Differ From Jets***

◇ *From:* tomcat

- ◆ ***Re: How Rockets Differ From Jets***

◇ *From:* Fred J . McCall

- ◆ ***Re: How Rockets Differ From Jets***

◇ *From:* tomcat

- ◆ ***Re: How Rockets Differ From Jets***

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- ◆ ***Re: How Rockets Differ From Jets***

◇ *From:* tomcat

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- Next by Date: ***Re: How Rockets Differ From Jets***
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