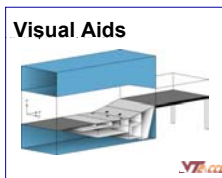
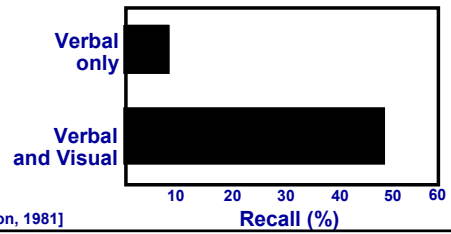
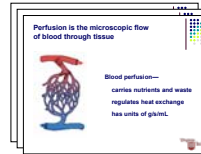


Presentations can be viewed from three stylistic perspectives



13

An advantage of using slides is that audiences remember more when the slides are well-designed



[Wharton, 1981]

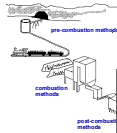
This talk presents a slide design that is much more effective than the default design of PowerPoint

More quickly read

Our goal is to test a fillet design for turbine vanes downstream of the combustor



This presentation compares several methods for reducing emissions of sulfur dioxide



In summary, the SVD method can effectively replace the exhaustive method

SVD reduces the number of computations



SVD maintains the accuracy of the exhaustive method



More memorable

More persuasive

15

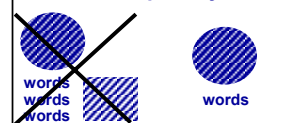
To allow audiences to read your slides quickly, you have to choose a proper typography and layout

Choose legible type

Sans serif type

~~SERIF TYPEFACE~~

Choose a helpful layout



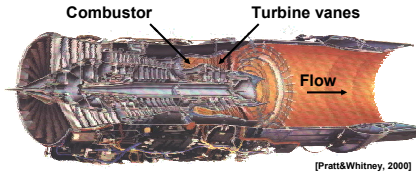
16

Much more effective than PowerPoint's default layout is a sentence headline supported by images

Sentence headline

Our goal is to test a fillet design for turbine vanes downstream of the combustor

Key image



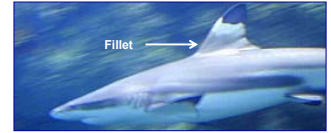
Needed words

The purpose of the fillet design is to reduce vortices that cause aerodynamic penalties

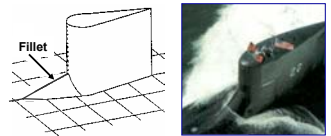


Fillets reduce leading edge vortices in nature and in engineering

Fillet on dorsal fin of shark



Fillet on Seawolf submarine



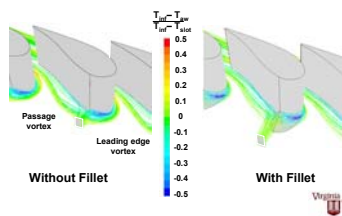
The sentence headline should state succinctly the purpose or assertion of the slide

A strong headline—

identifies the slide's purpose for the audience

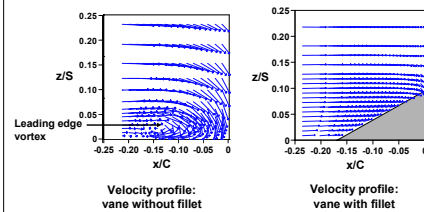
identifies the slide's purpose for the speaker

Computations show that the fillet prevents the leading edge vortex and delays the passage vortex



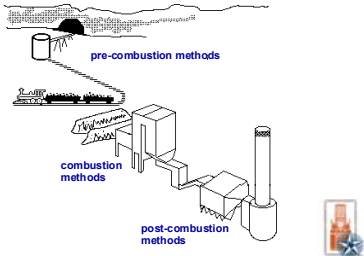
The body of a slide should support the headline primarily with images and with words where needed

Measurements show that the fillet prevents formation of the leading edge vortex



To make slides memorable, you have to consider what to include and what to exclude

This presentation compares several methods for reducing emissions of sulfur dioxide

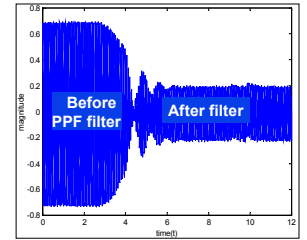


Slides should include key images and results



Images

[Palvio, 1981]
[Levin et al., 1987]
22



Results

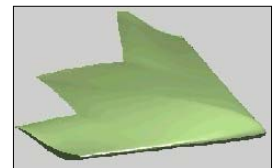
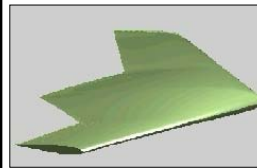
Slides should also include signals for the presentation's organization

Beginning

Middle

Ending

Computational Analysis of the Aerodynamic Energy Required of Morphing Wings



Greg Pettit, Harry Robertshaw, and Daniel J. Inman
Center for Intelligent Materials, Systems and Structures
Air Force Office of Scientific Research (F49620-99-1-0294)



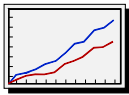
This presentation evaluates composite materials for the bipolar plates of fuel cells



Role of bipolar plates in fuel cells

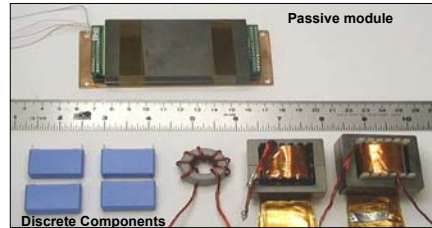


Comparison of bipolar plate materials



Evaluation of bipolar plate performance

Power passive modules perform the same functions as discrete circuits but with smaller volumes



	Discrete circuit	Passive module
Total volume (cm ³)	168	82

The total volume is cut by more than half

In summary, the phantom for blood perfusion has many useful applications

The phantom can—

- produce reasonable and reproducible perfusion
- allow for simple and inexpensive construction
- be modified for future experiments



Questions?

Bullets are not memorable, because bullets do not show the connections between details

Headline misleads

Key assumption is buried

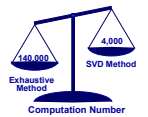
Review of Test Data Indicates Conservatism for Tile Penetration

- The existing SOFI on tile test data used to create Crater was reviewed along with STS-87 Southwest Research data
 - Crater overpredicted penetration of the coating significantly
 - Initial penetration to described by normal velocity
 - Varies with volume/mass of projectile (e.g., 200ft/sec for 3cu. in)
 - Significant energy is required for the softer SOFI particle to penetrate the relatively hard tile coating
 - Test results do show that it is possible at sufficient mass and velocity
 - Conversely, once tile is penetrated SOFI can cause significant damage
 - Minor variations in total energy (above penetration level) can cause significant tile damage
 - Flight condition is significantly outside of test database
 - Volume of ramp is 1920cu in vs 3 cu in for test

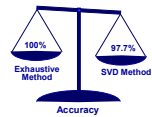
The slide design presented here is more persuasive than PowerPoint's default

In summary, the SVD method can effectively replace the exhaustive method

SVD reduces the number of computations



SVD maintains the accuracy of the exhaustive method



Sentence headlines can clarify assertions

Images in body can supply cogent evidence

Design leads to fewer slides, which can increase ethos



In summary, the slide design presented here is much stronger than PowerPoint's default design

The design can be read more quickly

The design is more memorable

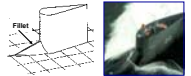
The design creates a more compelling argument

Fillets reduce leading edge vortices in nature and in engineering

Fillet on dorsal fin of shark



Fillet on Seawolf submarine



Templates: <http://writing.eng.vt.edu/slides.html>

