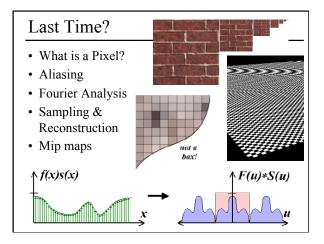
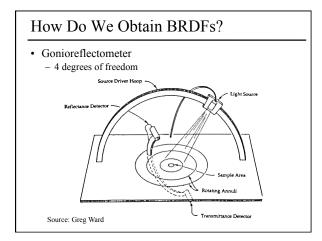
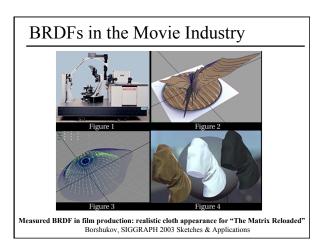
Subsurface Scattering & Complex Material Properties

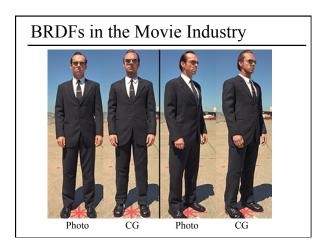


- Measuring BRDFs
- 3D Digitizing & Scattering
- Complex Material Properties
- Importance of Participating Media
- BSSRDFs
- Other Complex Materials

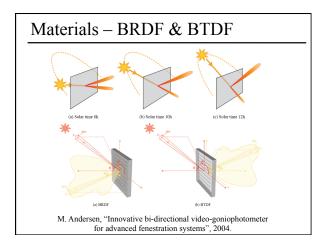


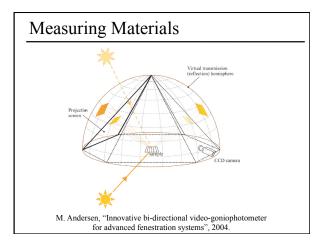






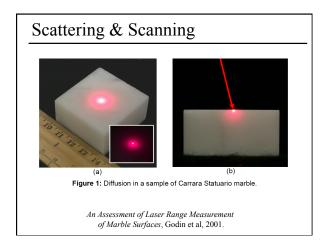


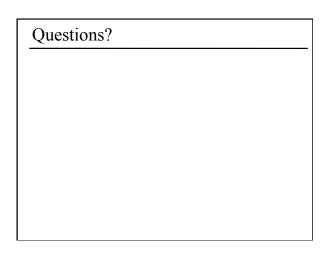


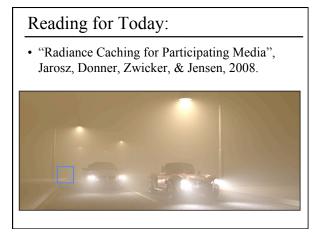


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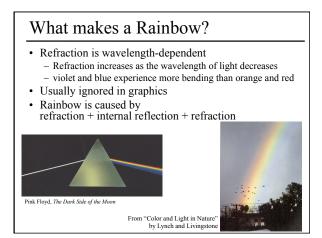


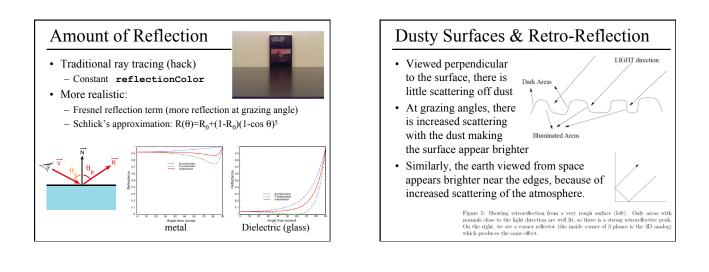
- Measuring BRDFs
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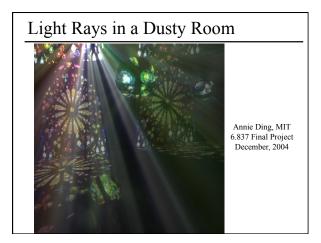
Anisotropic BRDFs

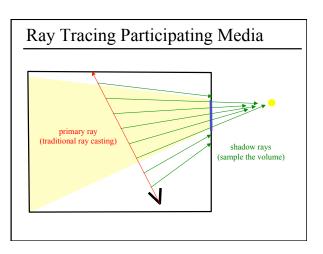
- · Surfaces with strongly oriented microgeometry
- Examples:
 - brushed metals, hair, fur, cloth, velvet

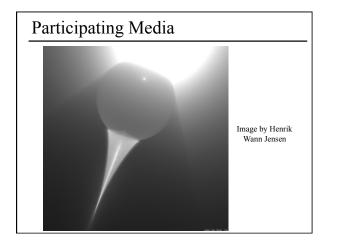




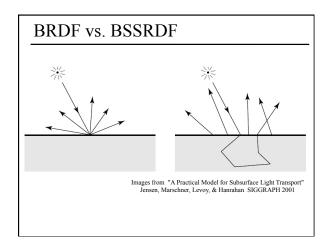


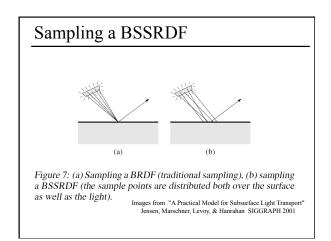


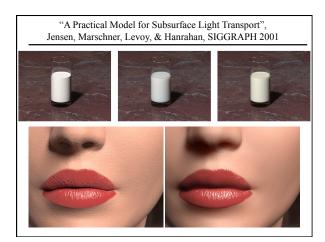




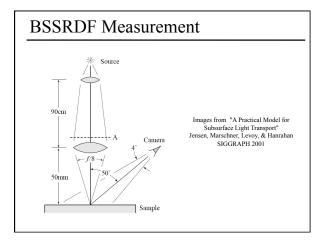
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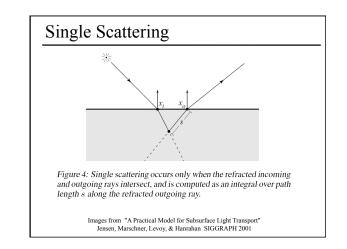


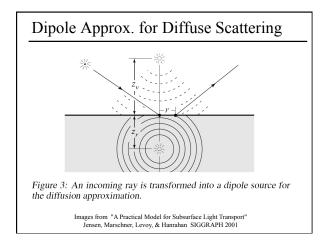




37	G 1 1	TT	Destrict
Name	Symbol	Units	Description
Scattering Coeff.	σ_s	$(length)^{-1}$	Probability of scattering per unit length
Absorption Coeff.	σ_a	$(length)^{-1}$	Probability of absorbtion per unit length
Phase Function	$p(x, \vec{\omega}', \vec{\omega})$		Angular distribution of scattering
Extinction Coeff.	σ_t	$(length)^{-1}$	$\sigma_a + \sigma_s$
(Scattering) Albedo	A		σ_s / σ_t
Optical Depth	$\tau(0, d)$		$\int_{0}^{d} \sigma_{t} dx$
Transmittance	t(0, d)		$e^{-\tau(0,d)}$
- When the	of light 1 albedo =	eflected 1, no abso	of BRDF, off the surface rption occurs and light is only is an ok approximation for snow







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