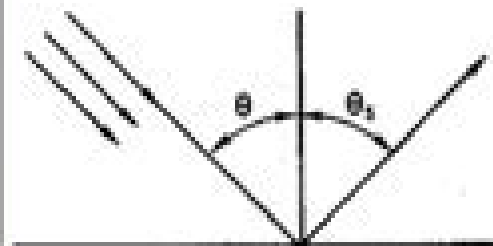


# Surface roughness and scattering

## Rayleigh criteria for "smoothness"

Phase difference between two reflected rays  $< \pi/2$   
Which leads to the following constraint on RMS height

$$\sigma < \frac{\lambda}{8 \cos \theta}$$



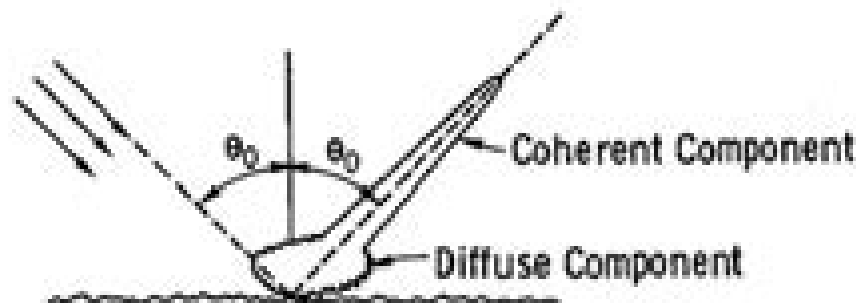
Reflected Power is Entirely Coherent and  $\theta_s = \theta$ , Scattering Pattern is a Delta Function

(a)

## Frauenhofer criteria for "smoothness"

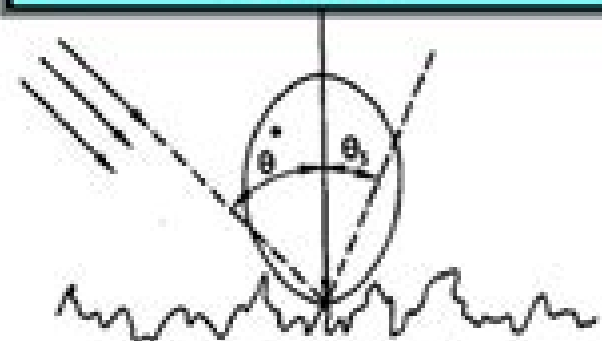
Phase difference between two reflected rays  $< \pi/8$   
Which leads to the following constraint on RMS height

$$\sigma < \frac{\lambda}{32 \cos \theta}$$



Scattering Pattern Consists of Large Coherent Component and Small Diffuse Component

(b)



Scattering Pattern is Composed Entirely of Diffuse Component. For Lambertian Surface,  $\sigma^0(\theta, \theta_s) = \sigma_0^0 \cos \theta \cos \theta_s$

(c)

Fig. 11.4 Relative contributions of coherent and diffuse scattering components for different surface-roughness conditions: (a) specular, (b) slightly rough, (c) very rough.

# Surface Roughness And Scattering

**Jean M. Bennett, Lars Mattsson**



## Surface Roughness And Scattering:

**Introduction to Surface Roughness and Scattering** Jean M. Bennett, Lars Mattsson, 1989      *Introduction to Surface Roughness and Scattering* Jean M. Bennett, 1988      **Light Scattering and Nanoscale Surface Roughness** Alexei A. Maradudin, 2010-05-10 All real surfaces both those occurring naturally and those fabricated artificially and with great care are rough to some degree It is therefore of interest and often of importance to know the extent to which this roughness affects physical processes occurring at a surface A particularly interesting class of physical processes occurring at a rough surface is the scattering of electromagnetic waves from it or their transmission through it In this case the degree of the surface roughness is referred to the wavelength of the waves incident on it The study of the scattering of electromagnetic waves from rough surfaces has been actively carried out for more than a century now since Rayleigh's investigations of the scattering of a monochromatic plane wave incident normally on a 1 sinusoidal interface between two different media The first theoretical treatment of the scattering of an electromagnetic wave from a randomly rough surface was due to Mandelstam in the context of the scattering of light from a liquid's face In these pioneering studies the angular dependence of the intensity of the scattered field was calculated by perturbation theory as an expansion in powers of the surface profile function though the first nonzero term a single scattering approximation      **Surface Roughness and Scattering**, 1992  
*Introduction to Surface Roughness and Scattering*, 1998      **Scattering and Surface Roughness II** Zu-Han Gu, Alexei A. Maradudin, Society of Photo-optical Instrumentation Engineers, 1998      **Surface Roughness and Scattering** National Science Foundation (U.S.), United States. Office of Naval Research, Optical Society of America, 1992      **Optical Scattering** John C. Stover, 2012 The first edition of this book concentrated on relating scatter from optically smooth surfaces to the microroughness on those surfaces After spending six years in the semiconductor industry Dr Stover has updated and expanded the third edition Newly included are scatter models for pits and particles as well as the use of wafer scanners to locate and size isolated surface features New sections cover the multimillion dollar wafer scanner business establishing that microroughness is the noise not the signal in these systems Scatter measurements now routinely used to determine whether small surface features are pits or particles and inspiring new technology that provides information on particle material are also discussed These new capabilities are now supported by a series of international standards and a new chapter reviews those documents New information on scatter from optically rough surfaces has also been added Once the critical limit is exceeded scatter cannot be used to determine surface roughness statistics but considerable information can still be obtained especially when measurements are made on mass produced products Changes in measurement are covered and the reader will find examples of scatter measurements made using a camera for a fraction of the cost and in a fraction of the time previously possible The idea of relating scatter to surface appearance is also discussed and appearance has its own short chapter After all beauty is in the eye of the beholder and what we see is scattered light      **Scattering and Surface**

**Roughness II**, 1998      *Scattering and Surface Roughness III* Zu-Han Gu, Alexei A. Maradudin, 2000      *Scattering and Surface Roughness* Zu-Han Gu, Alexei A. Maradudin, Society of Photo-optical Instrumentation Engineers, 1997      **Scattering and Surface Roughness**, 1997      *Silicon-on-Insulator Technology and Devices X* Electrochemical Society. Electronics Division, Electrochemical Society. Meeting, 2001      Theory of Wave Scattering From Random Rough Surfaces, J. A. Ogilvy, 1991 A review of theories developed for the study of acoustic elastic and electromagnetic wave scattering from randomly rough surfaces and a comprehensive summary of the latest techniques Different theories are illustrated by experimental data With applications in radar sonar ultrasonics and optics this book will be invaluable to graduate students researchers and engineers      **Light Scattering from Periodic Surfaces and Turned Surface Roughness Measurement [microform]** Yiying Fan, 1993      An Optical Area-scattering Based Approach for the Measurement of Surface Roughness Formed During Machining Don L. DeVoe, 1993      Light Scattering and Nanoscale Surface Roughness Alexei A. Maradudin, 2011-10-09 This book covers both experimental and theoretical aspects of nanoscale light scattering and surface roughness Topics include spherical particles located on a substrate surface and buried interface roughness surface roughness of polymer thin films magnetic and thermal fluctuations at planar surfaces speckle patterns scattering of electromagnetic waves from a metal multiple wavelength light scattering nanoroughness standards      *Nanoscale MOS Transistors* David Esseni, Pierpaolo Palestri, Luca Selmi, 2011-01-20 Written from an engineering standpoint this book provides the theoretical background and physical insight needed to understand new and future developments in the modeling and design of n and p MOS nanoscale transistors A wealth of applications illustrations and examples connect the methods described to all the latest issues in nanoscale MOSFET design Key areas covered include Transport in arbitrary crystal orientations and strain conditions and new channel and gate stack materials All the relevant transport regimes ranging from low field mobility to quasi ballistic transport described using a single modeling framework Predictive capabilities of device models discussed with systematic comparisons to experimental results      **Measurement of Surface Roughness by the Scattering of Coherent Light** Paul John Chandley, 1979      *Surface Physics of Materials V1* J.M. Blakely, 2012-12-02 *Surface Physics of Materials* provides an account of the physical properties of solid surfaces It examines the status of work on a number of aspects of solid surfaces and predicts the most profitable avenues for future research The book contains a set of papers carefully selected to give broad coverage of the field of surface physics The individual chapters deal with topics of current research interest and emphasize surface properties rather than the applicability of experimental techniques The book covers different properties such as surface crystallography electronic structure and statistical thermodynamics of surface It also provides a background of the importance of surfaces and interfaces in solid state devices and chemical reactions This book caters to research workers teachers and graduate students in surface physics and serves as reference texts for the materials scientist specializing in other branches of the subject

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