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this springerbrief presents a recent advancement in modeling and measurement of the effect of surface wettability on the defrost process carefully controlled laboratory measurements of the defrosting of cooled surfaces are used to reveal the effect of surface wetting properties on the extent and speed of frost removal by melting or slumping the experiments are accompanied by visualization of frost removal at several defrosting conditions analysis breaks the defrost process into three stages according to the behavior of the meltwater surface wetting factors are included and become significant when sufficient meltwater accumulates between the saturated frost layer and the surface the book is aimed at researchers practicing engineers and graduate students an investigation has been conducted on a small scale test layout in which direct observation of the shock wave movement with time could be made in order to determine the effects of

surface roughness on the characteristics of spherical shock waves data were obtained with 15 gram pentolite charges at four heights of burst both for a smooth surface and for a surface completely covered with pyramid shaped roughness elements the observations calculated in determinations of shock peak over pressure and mach stem height as a function of distance for each test condition this book summarizes the actual state of the art and future trends of surface effects in solid mechanics surface effects are more and more important in the precise description of the behavior of advanced materials one of the reasons for this is the well known from the experiments fact that the mechanical properties are significantly influenced if the structural size is very small like for example nanostructures in this book various authors study the influence of surface effects in the elasticity plasticity viscoelasticity in addition the authors discuss all important different approaches to model such effects these are based on various theoretical frameworks such as continuum theories or molecular modeling the book also presents applications of the modeling approaches the surface wettability effect on phase change collects high level contributions from internationally recognised scientists in the form of thoroughly explores surface

wettability with topics spanning from the physics of phase change physics of nucleation mesoscale modeling analysis of phenomena such drop evaporation boiling local heat flux at triple line leidenfrost dropwise condensation heat transfer enhancement freezing icing all the topics are treated by discussing experimental results mathematical modeling and numerical simulations in particular the numerical methods look at direct numerical simulations in the framework of vof simulations phase field simulations and molecular dynamics an introduction to equilibrium and non equilibrium thermodynamics of phase change wetting phenomena liquid interfaces numerical simulation of wetting phenomena and phase change is offered for readers who are less familiar in the field this book will be of interest to researchers academics engineers and postgraduate students working in the area of thermofluids thermal management and surface technology even before we think we use fantasy is fantasy the mother of all media does fantasy save me from myself are there fictions that are real in the surface effect andré nusselder examines the space of fantasy between individual inner life and social outer life where we assume that fantasy only operates where we float off in imaginary realms this book shows that we are in the beginning based on the works of

jacques lacan nusselder elaborates lacan s theory showing how the effects of unconscious processes converge in fantasy as our principal medium for self identity perception remembering and intersubjectivity the human mind is seen as a composite function of language body and social world and fantasy is the fundamental process to study this effect the book is divided into three sections the philosophical context lacan s theory of fantasy lacan and philosophy the surface effect analyses fantasy as a medium both creative and protective operating between anxiety and excess it focuses on the role of fantasy in psychoanalysis and follows its path towards reflections on mediation and new media this book will appeal to psychoanalysts philosophers cognitive scientists and those studying new media film culture and literature andré nusselder is a dutch philosopher writer and computer programmer a new investigation method is proposed for recording large sized joint profiles and making statistical analyses of the joint roughness coefficient jrc values of the 10 300 cm sized profiles e mechanical hand profilograph is used for joint roughness measurement due to its advantage of easy operation and high accuracy in recording joint traces based on the proposed method it provides sufficient samples from various joint profiles on the large

allows the statistical evaluation of jrc values a neutrosophic number nn is employed for revealing determinate and or indeterminate information as it consists of determinate and indeterminate parts due to the uncertainty of jrc in the real world nn is chosen to represent the jrc value which is not only random but also a fuzzy indefinite parameter the neutrosophic function is used to analyze and express the scale effect of joint surface roughness and its derivative is used to describe the changing trend of the scale effect a collection of articles on different approaches to the investigation of surface effects on nanosized magnetic materials with special emphasis on magnetic nanoparticles the book provides an overview of progress in the field through recent results in many instances of mechanical interaction between two materials the physical contact affects only the outermost surface layer with little discernible influence on the bulk of the material the resultant high pressures in these localised regimes can induce surface structural changes such as deformation phase transformation and amorphization lacan s theory of fantasy drilling is one of the basic machining process of making holes and that is is essential for manufacturing industry. therefore optimization of the parameters that control the process of micro drilling is

unavoidable in order to have the best results in this study the parametric optimization of micro drilling has been studied by considering a number of parameters such as spindle speed feed rate and drilling tool size on material removal rate mrr surface roughness dimensional accuracy in this work a study has been done on optimum drilling parameter for carbide drilling tool in micro drilling processes in order to find the best drilling parameter for copper as a work piece material micro drilling experiment with 2 3mm to 2 6 mm drill sizes were performed by changing the spindle speed and feed at three different levels comparative analysis has been done between surface roughness mrr and dimensional accuracy of drilled holes by experimentation from the result the surface roughness are mostly influenced by spindle speed and feed rate as the spindle speed increases the surface roughness will decrease however the surface roughness increases with increase in feed rate the value of mrr decrease when the tool diameter spindle speed and feed rate decreases as drilling tool diameter feed rate and spindle speed increase the dimensional accuracy of drilled hole will decrease the increment of spindle speed and feed rate value will affect the tool wear since the

publication of the best selling first edition textbook offering price and environmental cost of

energy have increased the significance of tribology handbook of lubrication and tribology volume ii theory and design second edition demonstrates how the principles of tribology can address cost savings energy conservation and environmental pr electromagnetic surface modes are present at all surfaces and interfaces between material of different dielectric properties these modes have very important effects on numerous physical quantities adhesion capillary force step formation and crystal growth the casimir effect etc they cause surface tension and wetting and they give rise to forces which are important e g for the stability of colloids this book is a useful and elegant approach to the topic showing how the concept of electromagnetic modes can be developed as a unifying theme for a range of condensed matter physics the author concentrates in finding out the basic origin of the force and how they are developed from the collective excitations of the solids different materials are treated e g metals semiconductors plasmas liquids and gases all with different collective modes in close relation to the theoretical background the reader is served with a broad field of applications the book serves readers who are concerned with applications to real world problems with a deep knowledge on surface modes and inspires new developments in the

field the army materials and mechanics research center has conducted the sagamore army materials research conferences in cooperation with the metallurgical research laboratories of the department of chemical engineering and metallurgy of syracuse university since 1954 the purpose of the conferences has been to gather together scientists and engineers from academic institutions industry and government who are uniquely qualified to explore in depth a subject of importance to the army the department of defense and the scientific corr munity this volume surfaces and interfaces ll physical and mechanical properties can be considered a continuation or perhaps an extension of the information contained in surfaces and interfaces i chemical and physical characteristics the emphasis in this volume is focused on the technological significance of surfaces and interfaces surface sensitive mechanical properties environment sensitive properties control of grain structure and composite materials it is felt that the rather ambitious undertaking of the program committee to place the role of surfaces and interfaces in its proper context has been achieved the balance between basic research findings and more applied research allows the reader a certain degree of latitude in the use of the two volumes the contained

active interest and support of these conferences by col c t riordan commanding officer dr e scala technical di rector and j f sullivan deputy technical director of the army materials and mechanics research center is appreciated this report describes a series of model tests and laboratory experiments carried out in the ice tank at imd between september 1986 and february 1987 for melville shipping limited and sponsored by the transportation development centre the purpose of the tests was to study the effect of friction between the ship model and the ice on the resistance measurements in level ice the model test results show the effect of surface finish characterized by friction coefficient or surface roughness on resistance within the range of parameters covered building on advances in miniaturization and soft matter surface tension effects are a major key to the development of soft fluidic microrobotics benefiting from scaling laws surface tension and capillary effects can enable sensing actuation adhesion confinement compliance and other structural and functional properties necessary in micro and nanosystems various applications are under development microfluidic and lab on chip devices soft gripping and manipulation of particles colloidal and interfacial assemblies fluidic mechatronics the capillary

ubiquitous in drops bubbles and menisci opening a broad spectrum of technological solutions and scientific investigations identified grand challenges to the establishment of fluidic microrobotics include mastering the dynamics of capillary effects controlling the hysteresis arising from wetting and evaporation improving the dispensing and handling of tiny droplets and developing a mechatronic approach for the control and programming of surface tension effects in this special issue of micromachines we invite contributions covering all aspects of microscale engineering relying on surface tension particularly we welcome contributions on fundamentals or applications related to drop botics fluidic or surface tension based micro nanorobotics capillary manipulation gripping and actuation sensing folding propulsion and bio inspired solutions control of surface tension effects surface tension gradients active surfactants thermocapillarity electrowetting elastocapillarity handling of droplets bubbles and liquid bridges dispensing confinement displacement stretching rupture evaporation capillary forces modelling measurement simulation interfacial engineering smart liquids surface treatments interfacial fluidic and capillary assembly of colloids and devices biological applications of surface tension including lab on chip and organs

chip systems excerpt from on the scattering effect of a rough plane surface the two dimensional case has been studied as a model for a striated surface and also in order to make possible a comparison with the corresponding parts of the rigorous theory of twersky about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

The Effect of Surface Wettability on the Defrost Process *2018-10-26*

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Effect of Surface Roughness on Characteristics of Spherical Shock Waves *1955*

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Effect of Surface Preparation and Gas Flow on Nitrogen Atom Surface Recombination *1961*

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Effect of Surface Coatings and Treatments on Wear *1996*

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this book will be of interest to researchers academics engineers and postgraduate students working in the area of thermofluids thermal management and surface technology

Effect of Surface Active Media on Friction, Deformation, and Fracture of Calcium Fluoride *1969*

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Effect of Surface Condition on Ductile-to-brittle Transition Temperature of Tungsten *1961*

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Effect of Surface Topography upon the Quality of Autobody Panels *2003*

a collection of articles on different approaches to the investigation of surface effects on nanosized magnetic materials with special emphasis on magnetic nanoparticles the book provides an overview of progress in the field through recent results

Effect of Surface Protuberances on Impact Limiters for Spherical Hard-landing Payloads *1970*

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between two materials the physical contact affects only the outermost surface layer with little discernible influence on the bulk of the material the resultant high pressures in these localised regimes can induce surface structural changes such as deformation phase transformation and amorphization

Surface Effects in Solid Mechanics 2013-03-12

lacan s theory of fantasy

The Surface Wettability Effect on Phase Change *2021-10-30*

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Effect of Distributed Three-dimensional Roughness and Surface Cooling on Boundary-layer Transition and Lateral Spread of Turbulence at Supersonic Speeds 1959

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first edition the growing price and environmental cost of energy have increased the significance of tribology handbook of lubrication and tribology volume ii theory and design second edition demonstrates how the principles of tribology can address cost savings energy conservation and environmental pr

Effect of Surface Roughness on Coating Adhesion Quality 2011

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Effect of Discontinuities in Surface Catalytic Activity on Laminar Heat Transfer in Arc-heated Nitrogen Streams *1966*

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The Surface Effect *2012-10-02*

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the ship model and the ice on the resistance measurements in level ice the model test results show the effect of surface finish characterized by friction coefficient or surface roughness on resistance within the range of parameters covered

Neutrosophic Function for Assessing the Scale Effect of the Rock Joint Surface Roughness *2006-06-09*

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Surface Effects in Magnetic Nanoparticles *1978*

excerpt from on the scattering effect of a rough plane surface the two dimensional case has been studied as a model for a striated surface and also in order to make possible a comparison with the corresponding parts of the rigorous theory of twersky about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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High Pressure Surface Science and Engineering 2013

The Surface Effect 1969

The Effect of Orientation and the Presence of Surface Active Materials on the Friction, Deformation and Wear of Aluminum ***1963***

Effect of Fabrication-type Surface Roughness on Transition on Ogive-cylinder Models at Mach Number of 1.61 and 2.01 1957

The Effect of Surface Tension Upon the Flotation of Small Beads of Hexadecanol ***1959***

A Hydrodynamic Investigation of the Effect of Adding Upper-surface Camber to a Submerged Flat Plate ***1966***

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Effect of Surface Energy on the Liquid-vapor Interface Configuration During

Weightlessness ***1970***

Effect of Surface Groups on Adsorption of Pollutants ***2012-07-06***

Handbook of Lubrication and Tribology, Volume II ***2011-04-27***

Surface Modes in Physics ***2013-03-09***

Surfaces and Interfaces II ***1987***

The Effect of Surface Friction on Ship Model Resistance in

Level Ice ***2019-10-21***

Microscale Surface Tension and Its Applications 1949

The Effect of Surface Roughness Upon 25 ST Aluminum Alloy Subjected to Repeated Tensile Stresses Above the Proportional Limit ***1997-06-01***

Surface Roughness and Particle Size Effect in Brownian Coagulation ***2016-08-27***

On the Scattering Effect of a Rough Plane Surface (Classic Reprint) ***2001***

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