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and flows. His  
thinking on separated  
flows paved the way  
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universality of the  
models of turbulence  
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are presented to  
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this well-received  
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present the operating principles and working aspects of thermal and hydraulic machines. First, it covers the laws and the essential principles of thermodynamics that form the basis on which thermal machines operate. It subsequently presents the



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control of hydraulic  
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evolution resulting  
from ion  
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induced sputtering.  
Although there is an  
impressive number of  
investigations {1}  
concerned with  
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been conducted with  
fcc metals with  
particular interest on  
single crystal Cu  
{2,3}. Evidence now  
exists that within  
certain para meters (i.  
e ion species (Ar+),  
ion energy (20-44  
KeV), substrate 2  
temperature (80-550°  
K), dose rate  
(100-500  $\mu\text{A cm}^{-2}$ ),  
residual  $\times 5 \times 9$

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pressure (5 10- to  
5x10- mm Hg) and  
polar and azimuthal  
angle of ion incidence  
{4} reproducible  
surface morphology  
(etch pits and  
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on the (11 3 1)  
specific  
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orientation. The  
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features was also observed in this later study {4}, by employing an in situ ion source in the scanning electron microscope at Salford, a technique also employed in studies of the influence of polar angle of ion incidence {5} and surface contaminants {6} on

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the topography of Ar<sup>+</sup>  
bombarded Si.

Studies have also  
been made on the  
variation of incident  
ion species with the  
(11 3 1) Cu surface  
and it was fully  
recognized {7} that  
residual surface  
contaminants when  
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major role in dictating  
the morphological

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