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The last few years  
have been  
characterized by a  
tremendous  
development of  
quantum

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With  
information and  
probability and  
their applications,  
including quantum  
computing,  
quantum  
cryptography, and  
quantum random  
generators. In  
spite of the  
successful  
development of

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quantum  
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With  
technology, its  
foundational basis  
is still not concrete  
and contains a few  
sandy and shaky  
slices. Quantum  
random  
generators are one  
of the most  
promising outputs  
of the recent

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information  
With  
revolution.

Therefore, it is  
very important to  
reconsider the  
foundational basis  
of this project,  
starting with the  
notion of  
irreducible  
quantum

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randomness.  
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Quantum  
With  
probabilities  
present a powerful  
tool to model  
uncertainty.  
Interpretations of  
quantum  
probability and  
foundational  
meaning of its  
basic tools,

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starting with the  
Born rule, are  
among the topics  
which will be  
covered by this  
issue. Recently,  
quantum  
probability has  
started to play an  
important role in a  
few areas of  
research outside

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quantum  
physics—in  
particular,  
quantum  
probabilistic  
treatment of  
problems of  
theory of decision  
making under  
uncertainty. Such  
studies are also  
among the topics

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of this issue.

This volume  
Isolated Bridges  
With  
thoroughly  
describes the  
fundamentals of a  
new  
multidisciplinary  
field of study that  
aims to deepen  
our understanding  
of the human body  
by combining



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anatomy: space,  
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pathology.  
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Applying this  
dynamic and  
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approach in the  
clinical setting will  
promote better  
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and more  
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here share new insights into unresolved issues in the diagnosis and treatment of disease, and into the healthy human body.

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highlighted field  
problems  
involving fluid-  
structure  
interaction over a  
wide span of Navy  
operations.  
Considering the  
vast size and  
versatility of the  
Navy's inventory,  
the cases

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presented  
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represent  
With  
examples of a  
much larger  
problem. But even  
this limited set  
provides sufficient  
evidence that fluid-  
structure  
interaction does  
hinder the Navy's  
ability to



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accomplish its  
missions. This  
survey has also  
established that  
there are no  
accurate and  
generally  
applicable design  
tools for  
addressing these  
problems. In the  
majority of cases

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the state-of-practice is to either make ad-hoc adjustments and estimates based on historical evidence, or conduct expensive focused tests directed at each specific problem and/or candidate

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solution.

Unfortunately,  
With these approaches  
do not provide  
insight into the  
fundamental  
problem, and  
neither can be  
considered reliable  
regarding their  
likelihood of  
success. So the

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opportunities for  
applying  
computational  
fluid-structure  
interaction  
modeling to Navy  
problems appear  
limitless. Scenarios  
range from the  
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strumming of  
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applicable and  
computationally  
tractable design-  
oriented models  
for these  
phenomena are of  
course still far in  
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