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***The traditional
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dynamics (CFD)
technique is mostly
applying in the
continuum gas
domain which is***

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major impact in
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exponential increase
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have changed the
role of computers in
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computation. This is
particularly true in
CFD, where the
power of desktop
computing and
supercomputers
have allowed CFD
results ...*

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is a branch of fluid
mechanics. Different
types of numerical
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***examine various
problems. Fluid flow***

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be described by the
conservation laws
for mass,
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energy, which are
governed by partial
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equations. In order
to solve this
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*A narrative of
landmarks in
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dynamics (CFD) is
presented to
highlight the
cornerstone
achievements.*

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accomplishments
starting from the
very beginning of*

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***the coherent
development until
the most recent***

***progress will be
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span over more than
six decades.***

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*(CFD), also known
as three-
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hydraulic modeling,
is a practical way to
predict and visualize
how water flows in
real-world
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numerical solution of the conservation equations for fluid flow is known as computational fluid dynamics (CFD). CFD was initially done without automation because the need to solve these equations (e.g., in aircraft design) preceded the development of

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electronic
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computers by
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several decades.

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extraordinary
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to create many new
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straightforward
opportunities are to
address the most
challenged and the
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