

RANS

Eddy-Viscosity Model: Isotropic Turbulence Assumptions

Non-Isotropic Turbulence

1-Equation

2-Equation

4-Equation

2nd Moment Closure

Spallarato-Allmaras

k-ε family

k-ω family

k-ε-ω Based Two Layer

V²-f k-ε Model

RSM: Reynolds Stress Model

Low-Re^{*}

High-Re^{*}

High-Re^{*}

All-Re^{*}

High-Re^{*}

Low-Re^{*}

Standard

Standard

Standard

Menter's SST[†]

High-Re

Realizable[^]

Low-Re k-ω

DES Version

Low-Re k-ε

Low-Re

Low-Re

* -> Default formulation

† - Shear Stress Transport

^ -> Similar to scalable in CFX

Eddy-Viscosity Model: Isotropic Turbulence Assumptions

Non-Isotropic Turbulence

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2012 Magnus Fontes,Michael Günther,Nicole Marheineke,2014-05-14 This book contains the proceedings of the 17th
European Conference on Mathematics for Industry ECMI2012 held in Lund Sweden July 2012 at which ECMI celebrated its
25th anniversary It covers mathematics in a wide range of applications and methods from circuit and electromagnetic
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that will provide mathematicians with a source of fresh ideas and inspiration **Mechanical Engineering** ,1987

Aeronautical Engineering ,1990 A selection of annotated references to unclassified reports and journal articles that were
introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace
reports STAR and International aerospace abstracts IAA Domestic Engineering and the Journal of Mechanical
Contracting ,1951 Environmental Protection Research Catalog: Indexes Smithsonian Science Information Exchange,1972

Mechanical Engineering News ,1987 *1998 Ocean Sciences Meeting* ,1998 Dissertation Abstracts International
,1990 **Newsletter** New Zealand Mathematical Society,2002 **Laser and Beam Control Technologies** Santanu
Basu,James Francis Riker,2002 This volume examines laser beam and control technologies Aero/space Engineering ,1958

Mathematical and Numerical Foundations of Turbulence Models and Applications Tomás Chacón Rebollo,Roger
Lewandowski,2014-06-17 With applications to climate technology and industry the modeling and numerical simulation of
turbulent flows are rich with history and modern relevance The complexity of the problems that arise in the study of
turbulence requires tools from various scientific disciplines including mathematics physics engineering and computer science
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applied mathematics and engineering as well as researchers in mathematical and numerical fluid dynamics It is also a
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