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[4]Kim, K. Y., and Chung, M. K., "Reply by Authors to F. B. Gessner and M. A. Leschziner," *AIAA Journal*, Vol. 27, No. 9, 1989, p. 1036.

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Reply by Authors to G. C. Cheng

Kwang Yong Kim*
Inha University, Incheon, Korea
and
Myung Kyoon Chung†
Korea Advanced Institute of Science and Technology, Taejon, Korea

THIS is a reply to G. C. Cheng who raised an inconsistency problem between model constants discussed in our reply[1] to previous comments by Gessner[2] and Leschziner[3] on the new eddy viscosity model for computation of swirling turbulent flows.[4]

Our eddy viscosity model [Eq. (4) of Cheng's comment] had been derived from algebraic stress equations[5] by introducing a number of rather crude assumptions [Eq. (5) in Ref. 4] for weakly swirling flows. Therefore, the relations between constants should not be considered as serious ones. They only guide us to determine approximate ranges of the model constants, α and β. Consequently, α and β must be inevitably adjusted in the feasible ranges permitted by the relations. As was shown in Ref. 4, the feasible ranges of α and β are $0.06 \le \alpha \le 0.14$ and $0.05 \le \beta \le 0.44$ under the local equilibrium condition $P = \epsilon$. Here, $\alpha = 0.09$ was taken to be consistent with the asymptotic case of the eddy viscosity coefficient for $R_i = 0$, and $\beta = 0.25$ was chosen as an average value within the range.

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*Associate Professor, Mechanical Engineering, Yonghyun-dong, Nam-ku.

†Professor, Mechanical Engineering, Kusong-dong, Yusong-ku.

Errata

Compatibility Conditions of Structural Mechanics for Finite Element Analysis

S. N. Patnaik and L. Berke
NASA Lewis Research Center, Cleveland, Ohio
and
R. H. Gallagher
Clarkson University, Potsdam, New York

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AUTHORS S. N. Patnaik and L. Berke were inadvertently omitted from the title of this article because a correction was improperly applied to the title page. The Journal editorial department accepts full responsibility for this error and extends their apologies to the authors. Please note that their names appeared correctly in the Table of Contents and that they will be indexed correctly in the December 1991 issue of the Journal. Corrected reprints of this article are available from the authors.

Cell Centered and Cell Vertex Multigrid Schemes for the Navier-Stokes Equations

R. C. Swanson
NASA Langley Research Center, Hampton, Virginia 23665
and
R. Radespiel
DLR, Institute for Design Aerodynamics, Braunschweig, Germany

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THE following revised table should replace the one published on page 702 of this article:

Table 1 Mesh parameters

Grid	$\Delta y_{\min}$	Δx_{te}	Δs_{le}	$\Delta x_{x=0.5c}$	SF
193×33	2.25×10^{-5}	5.20×10^{-3}	3.25×10^{-3}	1.39×10^{-2}	1.56
385×65	1.00×10^{-5}	2.46×10^{-3}	1.57×10^{-3}	7.13×10^{-3}	1.25
577×97	6.67×10^{-6}	1.64×10^{-3}	1.04×10^{-3}	4.78×10^{-3}	1.16