

## 動力特性

### 2000

Jorge M.T.Vasconcelos, Sandra C.P.Orvalho, Ana M.A.F.Rodrigues and Sebastiao S.Alves:

"Effect of Blade Shape on the Performance of SixBladed Disk turbine Impellers"

Ind.Eng.Chem.Res., 39(1), 203213(2000)

Guillaume Delaplace, JeanClaude Leuliet and Gilles Ronse:

"Power requirement when mixing a shearthickening fluid with a helical ribbon impeller type"

Chem.Eng.Technol., 23(4), 329335(2000)

J.Houcine, E.Plasari and R.David:

"Effects of the stirred tank's design on power consumption and mixing time in kiquid phase"

Chem.Eng.Technol., 23(7), 605613(2000)

Guillaume Delaplace and JeanClaude Leuliet:

"A New expression of the K<sub>s</sub> factor for helical ribbon agitators"

Can.J.Chem.Eng., 77(April), 393395(2000)

Kamiwano,M., M.Kaminoyama, K.Nishi and Y.Suzuki:

"Power consumption diagram for wet particle kneader mixers

In the case that rheological properties for wet particles cannot be measured "

J.Chem.Eng.Japan, 33(3), 489498(2000)

長舟 誉也、平田 雄志

"降伏応力を有する非ニュートン流体攪拌流動域の成長過程と動力特性"

化学工学論文集, 26(3), 387393(2000)

## 流動特性

### 1999

P.J.Holden, M.Wang, R.Mann, F.J.Dickin and R.B.Edwards:

"On Detecting mixing pathologies inside a stirred vessel using electrical resistance tomography"

Trans.IChemE, 77, Part A, Nobember, 709712(1999)

N.J.Fentiman, K.C.Lee, G.R.Paul and M.Yianneskis:

"On the trailing vortices around hydrofoil impeller blades"

Trans.IChemE, 77, Part A, Nobember, 731740(1999)

### 2000

Baudow,C., C.Xuereb, J.Costes and J.Bertrand:

"Laser Doppler measurements of turbulent parameters in different multiplepropeller systems"

Chem.Eng.Technol., 23(3), 257266(2000)

Jie Wu and Lionel Pullum:

"Performance analysis of axialflow mixing impellers"

AIChE J., 46(3), 489498(2000)

Fabrice Guillard, Christian Tragardh and Laszlo Fuchs:

"New image analysis methods for the study of mixing patterns in stirred tanks":

Can.J.Chem.Eng., 77(April), 273285(2000)

Larry Glasgow:

"Fluidborne entities in the impeller stream of a Rushton turbine"

Can.J.Chem.Eng., 77(April), 286292(2000)

Johan Revstedt, Laszlo Fuchs, Tamas Kpvacs and Christian Tragardh:

"Influence of Impeller Type on the Flow Structure an a Stirred Reactor"

AIChE J., 46(12), 23732382(2000)

## 混合特性

### 2000

M.Rahimi, P.R.Senior and R.Mann:

"Visual 3D modeling of stirred vessel mixing for an inclinedblade impeller"

Trans.IChemE, 78, Part A, April, 348335(2000)

## 伝熱特性

### 2000

## 気液系

### 1999

K.J.Myers, A.J.Thomas, A.Bakker and M.F.Reeder:

"The performance of a gas dispersion impeller with vertically asymmetric blades"

Trans.IChemE, 77, Part A, November, 728730(1999)

Naoki Dohi, Yukimasa Matsuda, Norihiro Itano, Kazuhiro Shimizu, kimio Minekawa and Yoshinori Kawase:

"Mixing in MultipleImpeller stirred tank reactors with boiling liquids"

Can.J.Chem.Eng., 77(October), 786792(1999)

Swaonil S.Patil and Jyeshtharaj B.Joshi:

"Stability of gasinducing type impellers"

Can.J.Chem.Eng., 77(October), 793803(1999)

### 2000

K.M.Gezork, W.Bujalski, M.Cooke and A.W.Nienow:

"The transition from homogeneous to heterogeneous flow in a gassed, stirred vessel"

Trans.IChemE, 78, Part A, April, 363370(2000)

## P.C.Lines:

"Gasliquid mass transfer using surfaceaeration in stirred vessels, with dual impellers"

Trans.IChemE, 78, Part A, April, 342347(2000)

Ashok S.Khare and Keshavan Niranjan:

"Comparison of gas holdup in inpeller agitated water and high viscosity liquids"

J.Chem.Eng.Japan, 33(5), 815817(2000)

Alessandro Paglianti, Katsuhide Takenaka, Waldemar Bujalski and Koji Takahashi:

"Estimation of gas holdup in aerated vessels"

Can.J.Chem.Eng., 78(April), 386392(2000)

Ioannis Markopoulos, Efterpi Kadoglou, Diogenes Papaevangelou and Andronike Zavitsanou:

"Regional mean bubble diameters and gas holdup in agitated gasliquid contactors"

Chem.Eng.Technol., 23(4), 337339(2000)

Shuai Xu, LianFang Feng, XuePing Gu, Kai Wang and GuoHua Hu:

"Gasliquid floating particle mixing in an agitated vessel"

Chem.Eng.Technol., 23(2), 103113(2000)

## 液液系

### 2000

## 固液系

1999

P.Sessiecq, P.Mier, F.Gruy and Cournil:

"Solid particles concentration profiles in an agitated vesel"

Trans.IChemE, 77, Part A, November, 741746(1999)

S.Ibrahim and A.W.Nienow:

"Comparing impeller performance for solidsuspension in the transitional flow regime with Newtonian fluids"

Trans.IChemE, 77, Part A, November, 721727(1999)

2000

G.Micale, V.Carrara, F.Grisafi and A.Brucato:

"Solid suspension in threephase stirred tanks"

Trans.IChemE, 78, Part A, April, 319326(2000)

Zuoliang Sha and Seppo Palosaari:

"Mixing and crystallization in suspensions"

Chem. Eng. Sci., 55, 17971806(2000)

## 数值解析

2000

Alberto Brucato, Michele Ciofalo, Franco Grisafi and Roberto Tocco:

"On the simulation of stirred tank reactors via computational fluid dynamics"

Chem. Eng. Sci., 55, 291302(2000)

Albert D.Harvey III, David H.West and Nicho;as B.Tufillaro:

"Evaluation of laminar mixing in stirred tanks using a discretetime particlemapping procedure"

Chem. Eng. Sci., 55, 667684(2000)

K.NG and M.Yianneskis:

"Observations on the distribution of energy dissipation in stirred vessels"

Trans.IChemE, 78, Part A, April, 334341(2000)

Z.Jaborski, W.Bujalski, N.Otomo and A.W.Nienow:

"CFD study of homogenization with dual Rushton turbines Comparison with experimental results"

Trans.IChemE, 78, Part A, April, 327333(2000)

G.Micale, G.Montante, F.Grisafi, A.Brucaro and J.Godefrey:

"CFD simulation of particle distribution in stirred vessels"

Trans.IChemE, 78, Part A, April, 435444(2000)

J.Aubin, I.Naude, J.Bertrand and C.Xuereb:

"Blending of Newtonian and Shearthining Fluids in a Tank Stirred with a Helical Screw Agitator"

Trans.IChemE, 78, Part A, November, 11051114(2000)

## その他

1999

Jun Gao, Gregory C.Walsh, David Bigio, Robert M.Briber and Mark D.Wetzel:

"Residencetime distribution model for twinScrew Extruders"

AIChE J., 45(12), 25412549(1999)

Norihiro Doki, Noriaki Kubota, Akira Sato, Masaaki Yokota, Osamu Hamada and Fumio Masumi:

"Scaleup experiments on seeded batch cooling crystallization of potassium alum"

AIChE J., 45(12), 25272533(1999)

david R.Unger and Fernando J.Muzzio:

"Laserinduced fluorescence technique for the quantification of mixing in impinging jets"

**2000**

D.Rauline, J.M.Le Blevec, J.Bousquet and P.A.Tanguy:  
"A comparative assesment of the performance of the Kenics and SMX Static mixers"  
Trans.IChemE, 78, Part A, April, 389396(2000)

M.J.Clifford, S.M.Cox and E.P.L.Roberts:  
"The influence of a Lamellar structure upon the yield of a chemical reaction"  
Trans.IChemE, 78, Part A, April, 371377(2000)

D.Vlaev, R.mann, V.Lossev, S.D.Vlaev, J.Zharadnik and P.Seichter:  
"Macromixing and Streptomyces Fradiae modelling oxygen and nutrient segregation in an industrial bioreactor"  
Trans.IChemE, 78, Part A, April, 354362(2000)

JeanMarc Rousseaux, Herve Muhr and Edouard Plasari:  
"Chemical reactors of special geometry for the precipitation of mineral particles"  
Can.J.Chem.Eng., 78(August), 650662(2000)

Stephan J.Curran, Robert E.Hayes, Artin Afacan and Michael C.Williams:  
"Experimental mixing study of a yield stress fluid in a laminar stirred tank"  
Ind.Eng.Chem.Res., 39(1), 195202(2000)

井上義朗、平田雄志  
"平面上セル状対流におけるカオス的混合の数値解析II"  
化学工学論文集, 26(1), 3139(2000)

松田充夫、多田豊、平岡節郎、水谷芳郎、李泳世  
"攪拌槽におけるトルクの長周期変動の力学系の性質に関するカオス時系列解析"  
化学工学論文集, 26(3), 467472(2000)

V.T.Roussinova, B.Grgic and S.M.Kresta:  
"Study of microinstabilities in stirred tanks using a velocity decomposition technique"  
Trans.IChemE, 78, Part A, October, 10401052(2000)

Lotte A.Boon, Frans W.J.M.M. Hoeks, Rob G.J.M. van der Lans, Waldemar Bujalski and Alvin W. Nienow  
"Instabilities when using a standard(T/3) Rushton Turbine for stirring as foam disruption(SAFD)"  
Can.J.Chem.Eng., 78(Oct.), 884891(2000)

Fabrice Guillard, Christian Tragardh and Laszlo Fuchs  
"A study on the instability of coherent mixing structures in a continuously stirred tank"  
Chem.Eng.Sci., 55, 56575670(2000)

Yochiyuki Komoda, Yoshirou Inoue and Yushi Hirata:  
"Mixing Performance by Reciprocating Disk in Cylindrical Vessel"  
J.Chem.Eng.Japan, 33(6), 879885(2000)