1st Announcement

The 8th China-Japan Symposium on Chemical Engineering

Date: Oct. 14-15, 2017
Venue: Beijing Conference Center
Address: No. 88, Laiguangying Westroad, Chaoyang District, Beijing

Hosts:
The Chemical Industry and Engineering Society of China (CIESC)
The Society of Chemical Engineers, Japan (SCEJ)

Organizers:
Tsinghua University
Institute of Process Engineering, Chinese Academy of Sciences

Executive Chairmen:

China Side	Prof. Dr. Xing Xinhui, Tsinghua University
	Prof. Dr. Ma Guanghui, Institute of Process Engineering, Chinese Academy of Sciences
Japan Side	Prof. Dr. Teruyuki Nagamune, The University of Tokyo

Symposium Theme:
Smart Chemical Engineering for Green and Sustainable Development of Chemical Industry

Session Subjects:
1. Biotechnology and biomanufacturing
2. Energy and environmental technology
3. Green chemical production
4. Safety technology for chemical plant
5. Simulation and system integration technologies for chemical processes
6. Application of big data and IoT (Internet of Things) to chemical plant operation

Language: English

Abstract Submission:
Abstract(Template をご参照下さい)を下記の Website から 2017 年 9 月 1 日までに投稿をお願いいたします。
http://2017.ciesc.cn/CJ

Registration & Accommodation:
参加登録と宿泊予約は下記の Website から **2017 年 8 月 31 日**までに済ませて下さい。
なお、宿泊については、中国化工学会で Beijing Conference Center 内の客室をディスカウト価格で用意して頂いております。

参加と登録と宿泊予約は
https://service.kktcs.co.jp/smms2/enquete/answer/Answer.htm?cmd=new&eid=5qktej2r7df8fraihg9b2lfy

Registration Fee:
参加費 25,000 円
2017 年 8 月 31 日までに、下記口座に振込をお願いいたします。まとめて、中国化工学会に送金いたします。なお、領収書は化学工学会中国委員会事務局より送付いたします。
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Contact:
Ms. Tina Hu (CIESC)
T: 86-10-64440548　　M: 86-18601242968
E: huqin@ciesc.cn　　huqin@ciesc.net.cn

日本側
Mr. TAKAHISA OIDA (SCEJ)　化学工学会　事務局　老田氏
T: 81-3-3943-3527
E: oida@scej.org

Mr. Zhang Chong (Tsinghua University)
T: 86-10-62772294　　M:　86-13811690596
E: chongzhang@tsinghua.edu.cn

Abstract Template

Prediction of Core-Annulus Solids Mass Transfer Coefficient in Gas-Solid Fluidized Bed Risers[1]

LIU Xinhua[a, b], GAO Shiqiu [a, **] and SONG Wenli[a]

[a] Multiphase Reaction Laboratory, Institute of Process Engineering, CAS, Beijing 100080, China

[b] Graduate school of the Chinese Academy of Sciences, Beijing 100864, China

Abstract Based on analysis of energy dissipation in the core region of gas-solid fluidized bed risers, a simplified model for determination of core-annulus solids mass transfer coefficient was developed according to turbulent diffusion mechanism of particles. The simulation results are consistent with published experimental data. Core-annulus solids mass transfer coefficient decreases with increasing particle size, particle density and solids circulation rate, but generally increases with increasing superficial gas velocity and riser diameter. In the upper dilute region of gas-solid fluidized bed risers, core-annulus solids mass transfer coefficient was found to change little with the axial coordinate in the bed.

Keywords solids mass transfer coefficient, core-annulus structure, turbulent diffusion, gas-solid fluidization