



List of Papers and Others

Tateo Usui

December 25, 2018

1. Refereed Papers

(Papers in Japanese are noted. Otherwise in English.)

- (1) Munekazu Ohmi and Tateo Usui: Study on the Rate of Reduction of Single Iron Oxide Pellet with Hydrogen, *Tetsu-to-Hagané* (in Japanese), 59(1973)14, pp.1888 – 1901; On the Unreacted-core Shrinking Model for Reduction of a Single Hematite Pellet with Hydrogen, **Trans. ISIJ (Transactions of the Iron and Steel Institute of Japan)**, 16(1976)2, pp.77 – 84.
- (2) Munekazu Ohmi and Tateo Usui: Theoretical Investigation of Reaction Kinetics in the Reduction of Single Hematite Pellet under Pulsating Flow of Hydrogen, *Tetsu-to-Hagané* (in Japanese), 59(1973)14, pp. 1902 – 1913; **Trans. ISIJ**, 16 (1976)2, pp.85 – 91.
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- (3) Munekazu Ohmi and Tateo Usui: Pulsating Flow in a Circular Tube Containing a Slightly Compressible Fluid, 1st Report, Theoretical Treatments and Dynamic Consideration for Laminar Flow, **Trans. JSME (Transactions of the Japan Society of Mechanical Engineers)** (in Japanese), 41(1975)342, pp.546 – 558.
- (4) Munekazu Ohmi and Tateo Usui: Pulsating Flow in a Circular Tube Containing a Slightly Compressible Fluid, 2nd Report, Theoretical Study for Turbulent Flow, **Trans. JSME** (in Japanese), 41(1975)347, pp. 2030 – 2042.
- (5) Munekazu Ohmi, Tateo Usui, Michio Fukawa and Shuichi Hirasaki: Pulsating Flow in a Circular Tube Containing a Slightly Compressible Fluid, 3rd Report, Experimental Study on Pressure and Velocity Distributions for Laminar Flow, **Trans. JSME** (in Japanese), 41(1975)347, pp. 2043 – 2052.

- (6) Munekazu Ohmi, [Tateo Usui](#), Osami Tanaka and Masao Toyama: Pulsating Flow in a Circular Tube Containing a Slightly Compressible Fluid, 4th Report, Experimental Study on Cross-sectional Velocity Distribution for Turbulent Flow, Trans. JSME (in Japanese), [41](#)(1975)349, pp.2632 – 2642.
- (7) Munekazu Ohmi and [Tateo Usui](#): Pulsating Flow in a Circular Tube Containing a Slightly Compressible Fluid, 5th Report, Experimental Study on Pressure and Velocity Distributions along the Pipe for Turbulent Flow, Trans. JSME (in Japanese), [41](#)(1975)352, pp. 3542 – 3553.

- (3 + 5) Munekazu Ohmi, [Tateo Usui](#), Michio Fukawa and Shuichi Hirasaki: Pressure and Velocity Distributions in Pulsating Laminar Pipe Flow, **Bull. JSME (Bulletin of the Japan Society of Mechanical Engineers)**, [19](#) (1976)129, pp.298 – 306.

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- (6 + 7) Munekazu Ohmi, [Tateo Usui](#), Osami Tanaka and Masao Toyama: Pressure and Velocity Distributions in Pulsating Turbulent Pipe Flow, Part 2, Experimental Investigations, Bull. JSME, [19](#)(1976)134, pp.951 – 957.

- (8) Munekazu Ohmi and [Tateo Usui](#): Theory of Mass Transfer from a Sphere and a Circular Cylinder in Pulsating Flow, Tetsu-to-Hagané (in Japanese), [63](#)(1977)10, 1633 – 1642; Trans. ISIJ, [22](#)(1982)8, pp.593 – 599.

- (9) Munekazu Ohmi, Susumu Kyomen and [Tateo Usui](#): Analysis of Velocity Distribution in Pulsating Turbulent Pipe Flow (In the Case of Time-dependent Friction Velocity), Trans. JSME (in Japanese), [43](#)(1977)375, pp.4109 – 4117; Analysis of Velocity Distribution in Pulsating Turbulent Pipe Flow with Time-Dependent Friction Velocity, Bull. JSME, [21](#)(1978)157, pp.1137 – 1143.

- (10) Munekazu Ohmi, [Tateo Usui](#), Yoshiro Matsumoto and Yoshikazu Masuyama: Experimental Study of Mass Transfer from a Sphere in Pulsating Flow, Tetsu-to-

Hagané (in Japanese), 64(1978)8, pp.1105 – 1113; Trans. ISIJ, 22(1982)8, pp.600 – 607.

- (11) Munekazu Ohmi, Tateo Usui and Keiji Nakajima: Theory on Effective Diffusivities of Bi-disperse Porous Solids at Constant Pressure and Influence of an Inert Gas, Tetsu-to-Hagane (in Japanese), 66(1980)5, pp.449 – 458; Trans. ISIJ, 22(1982)1, pp.30 – 38.
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- (15) Munekazu Ohmi, Tateo Usui, Masaaki Naito and Yukinobu Minamide: Experimental Study of the Resistance Due to the Rate of Gas Flow on the Hydrogen Reduction of an Iron Oxide Pellet, Tetsu-to-Hagané (in Japanese), 67(1981)11, pp.1943 – 1951; Trans. ISIJ, 23(1983)1, pp.81 – 89.
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- (17) Munekazu Ohmi and Tateo Usui: Improved Theory on the Rate of Reduction of

Single Particles and Fixed Beds of Iron Oxide Pellets with Hydrogen, Trans. ISIJ, 22(1982)1, pp.66 – 74.

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- (26) Tateo Usui, Hirotooshi Kawabata, Shigeo Matsubara, Hiroshi Fukasaku, Takeshi Mizutani and Zen-ichiro Morita: Effect of Pulsating Flow on Mass Transfer in Packed Bed under Fe³⁺ – iron Particle System, Tetsu-to-Hagané (in Japanese), 77(1991)7, pp.913 – 920; ISIJ International, 33(1993)12, pp.1203 – 1210.
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- (34) Tateo USUI, Hirotooshi KAWABATA, Toshiki SOGO, Sachie MORII, Morimasa
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