

Memoirs of the
FACULTY OF ENGINEERING
KYOTO UNIVERSITY

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JANUARY 1978

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This memoirs is issued quarterly by the University to publish the original contributions to engineering science made or communicated by the members of the faculty. The faculty consists of following departments:

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Dept. of Mechanical Engineering	Dept. of Sanitary Engineering
Dept. of Electrical Engineering	Dept. of Applied Mathematics and Physics
Dept. of Mineral Science and Technology	Dept. of Precision Mechanics
Dept. of Metallurgy	Dept. of Synthetic Chemistry
Dept. of Industrial Chemistry	Dept. of Electrical Engineering, II
Dept. of Architecture	Dept. of Metal Science and Technology
Dept. of Hydrocarbon Chemistry	Dept. of Transportation Engineering
Dept. of Chemical Engineering	Dept. of Architectural Engineering
Dept. of Polymer Chemistry	Dept. of Information Science
Dept. of Electronics	Dept. of Engineering Science
Dept. of Aeronautical Engineering	Automation Research Laboratory
	Ionosphere Research Laboratory

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