

Memoirs of the
FACULTY OF ENGINEERING
KYOTO UNIVERSITY

VOLUME XXXVI PART 1

JANUARY 1974

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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 Mechanical Engineering, II
Dept. of Chemical Engineering	Dept. of Transportation Engineering
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	Ionosphere Research Laboratory
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All communications regarding the memoirs should be addressed to the dean of the faculty.

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