## Memoirs of the FACULTY OF ENGINEERING KYOTO UNIVERSITY

VOLUME XX PART 1

JANUARY 1958

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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 Electrical Engineering
Dept. of Mining
Dept. of Metallurgy
Dept. of Metallurgy
Dept. of Industrial Chemistry
Dept. of Architecture
Dept. of Sanitary Engineering
Dept. of Sanitary Engineering

All communications regarding the memoirs should be addressed to the dean of the faculty.

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