

A REPORT ON THE DESIGN

OF THE

FERMI NATIONAL ACCELERATOR LABORATORY

SUPERCONDUCTING ACCELERATOR

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FOREWORD

This report represents the cumulative work of many Fermilab people, both present and past. In past years, emphasis was primarily on magnet and refrigerator development. In this work members of the Magnet Section have shown great ingenuity, perseverance, and patience. During the past year, design emphasis has also been directed toward a consistent accelerator - collider design and has been diligently pursued by many members of the staff, in the Accelerator Division and throughout other sections of the Laboratory. The report covers this work, describing what we believe to be a clean, consistent, and economical design. Continuing effort in design will of course be necessary, with emphasis directed toward more detailed technical points.

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