

ON SOME TYPES OF FUNCTIONAL SPACES.

A Contribution to the Theory of Almost Periodic Functions.

By

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in COPENHAGEN.

WITH

AN APPENDIX.

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Preface.

In the present paper we shall study some types of functional spaces, the S^p -spaces, the W^p -spaces and the B^p -spaces ($p \geq 1$) as well as the almost periodic subspaces of these spaces which were met with when generalising the theory of the almost periodic functions. The spaces of S -type, W -type and B -type will be treated separately.

In a later paper FØLNER will study the »ensemble« of all the types of spaces mentioned. In the investigation of this ensemble certain methods of constructing examples, developed in the present common paper, will be employed, though in a modified and generalised form as in different respects more properties have to be demanded of the constructed functions. In order to avoid repetitions and to make the latter paper more perspicuous, these generalisations of the examples will be treated by FØLNER in an appendix to the present paper.
