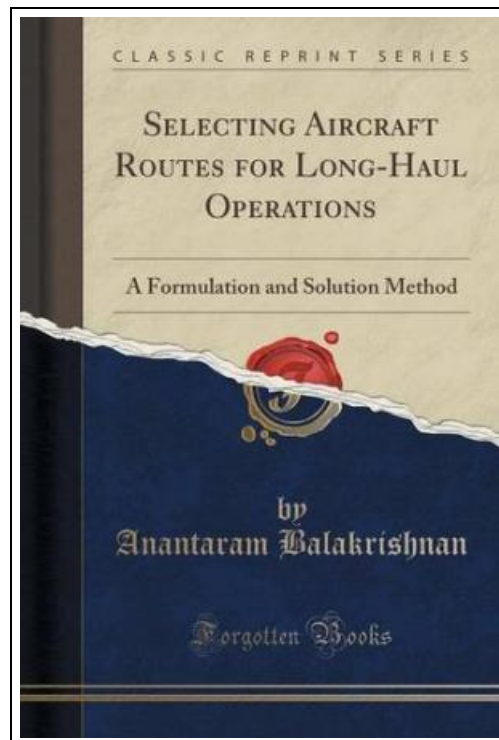


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **Selecting Aircraft Routes for Long-Haul Operations: A Formulation and Solution Method** In this paper we consider the routing of long-haul aircraft from a main base to one or more terminal bases. For these long-haul markets, the routing decision becomes critical because route profitability must be evaluated for the extremely large number of feasible routes covered by the operation. In addition, the route selection task is complicated by the pickup-and-delivery characteristic of the problem. Therefore, the development of an efficient procedure for selecting good candidate routes will facilitate the iterative flight scheduling process and may lead to more profitable timetables. We define an aircraft routing problem that captures the important profit-generating factors (such as intercity traffic estimates, revenues, operating costs and aircraft capacities) in the route selection decision. We formulate this problem as a mixed integer program, and develop a Lagrangian-based solution procedure that exploits the special structure of the problem. Computational results for several test problems indicate that the procedure is able to select a small number of profitable candidate routes, and provide good bounds that confirm the near-optimality of the generated solutions. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of...

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