



## An Analysis of Mathematical Models to Improve Counter-Drug Smuggling Operations (Paperback)

By Naval Postgraduate School

Createspace, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Joint Interagency Task Force South (JIATF South) serves as the center for counter-illicit trafficking operations against Central and South American drug cartels. JIATF South has jurisdiction over an enormous area and has a limited number of search and interdiction assets. Thus, mathematical models and tools to improve the search planning process could provide an immense benefit. This book contributes to a multi-institution effort to develop these models and tools. The goal is to provide enhanced situational awareness to operators about the likely location of smuggling targets and recommend search plans. This book combines a probability model and an optimization model into a user-friendly tool that operators and researchers can easily use. We also develop methods to convert the output of the probability model into inputs to the optimization model. This could be especially important if environmental factors play a significant role in the routes taken by drug smugglers. We examine how accurately this conversion algorithm reproduces the actual paths taken by smugglers. More importantly, we evaluate how well the search plan generated by the conversion algorithm performs. We find, in most cases,...



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