

## **Notice pdf - The design, development and testing of complex \_\_\_\_**

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Résumé ou extrait : This symposium was designed to explore how today's system designer is addressing the solutions to tomorrow's avionics systems design. As government budgets become more limited for the research, development, testing and production of military aircraft systems, and the Warsaw Pact nations continue to produce all types of aircraft in greater numbers, the NATO nations must "re-look" at how avionic systems are developed. In general, the avionics community has thought of avionic architecture as the integration of a collection, of "black boxes" (sensor, navigation, communication, display, etc.) with the software allowing for the communication between "black boxes," computers and man. Normally, the system is decomposed into manageable parts with accurately defined interfaces. With the advent of the VHSIC, distributed processing, artificial intelligence, sensor data fusion, etc., the technologies are blurring the clear functional allocation defined for the "black box." Two factors, technology and cost, provide both an opportunity and a challenge to the system designers to design future avionics systems whose performance degrades gracefully, is reliable, and is affordable

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