Record Nr. UNINA9910763596703321 Nechyporuk Mykola Autore Titolo Information Technologies in the Design of Aerospace Engineering // edited by Mykola Nechyporuk, Volodymyr Pavlikov, Dmytro Krytskyi Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, 2024 Pubbl/distr/stampa **ISBN** 3-031-43579-6 Edizione [1st ed. 2024.] Descrizione fisica 1 online resource (288 pages) Collana Studies in Systems, Decision and Control, , 2198-4190; ; 507 Altri autori (Persone) PavlikovVolodymyr KrytskyiDmytro Disciplina 621 Soggetti Mechanical engineering Aerospace engineering Astronautics Machine learning Automation Mechanical Engineering Aerospace Technology and Astronautics Machine Learning Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Information Technology for Determining the Flight Performance of a Nota di contenuto Paraglider Wing -- Designing a Basic Model of an Unmanned Aerial Vehicle for the Subsequent Development of a Family of Samples with Different Purposes -- Transport Category Aircraft Fuselage Integrated Design -- Blind Evaluation of Noise Characteristics in Multichannel Images -- Directions of Using Branched Trajectories of Deter-mined Complex Dynamic Systems -- Using Krotov's Functions for the Prompt Synthesis Trajectory of Intelligent Info-communication Robot. Sommario/riassunto This book proposes a solution to the problem of incorrect use of automation tools to perform complex design work. Currently, a large number of start-up projects are non-professional design bureaus that show a huge amount of their achievements. In reality, most of these achievements burst like soap bubbles. This is due to the low-quality

and inefficient use of information technology in this industry. The book

highlights advanced information technologies in the fields of design, machine learning, and computer vision.