

# Design and advanced computational approaches based comprehensive structural parametric investigations of rotary-wing UAV imposed with conventional and hybrid computational composite materials: A validated investigation

Elsayed Mohamed Tag Eldin ,Vijayanandh Raja1, [www.frontiersin.org](http://www.frontiersin.org)Hussein A. Z. AL-bonsrulah2,3, [www.frontiersin.org](http://www.frontiersin.org)Raj Kumar Gnanasekaran1, [www.frontiersin.org](http://www.frontiersin.org)Sayed M. Eldin4\*, [www.frontiersin.org](http://www.frontiersin.org)Parvathy Rajendran5,6, [www.frontiersin.org](http://www.frontiersin.org)Balamurali Baskaran7 and [www.frontiersin.org](http://www.frontiersin.org)Pradesh Sakthivel8

## Abstract

<https://www.frontiersin.org/articles/10.3389/fmats.2023.1096839/full>

*Frontiers in Materials* 2023, January