

# Numerical Investigation of Aerodynamic and Aeroacoustic Characteristics of Small Vertical Axis Wind Turbines

Amgad Dessoky



# Numerical Investigation of Aerodynamic and Aeroacoustic Characteristics of Small Vertical Axis Wind Turbines

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University of Stuttgart in partial fulfilment of the requirements for the degree of  
*Doctor of Engineering Sciences (Dr.-Ing.)*

by

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## **Declaration of Authorship**

I herewith declare that I have produced this thesis without the prohibited assistance of third parties and without making use of aids other than those specified; notions taken over directly or indirectly from other sources have been identified as such. This thesis has not previously been presented in identical or similar form to any other German or foreign examination board.

Stuttgart, 11 Jan 2021

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# Contents

<b>Contents</b>	<b>i</b>
<b>List of Figures</b>	<b>v</b>
<b>List of Tables</b>	<b>xiii</b>
<b>List of Symbols</b>	<b>xv</b>
<b>Abstract</b>	<b>xix</b>
<b>Kurzfassung</b>	<b>xxi</b>
<b>1 Introduction</b>	<b>1</b>
1.1 Background and Motivation . . . . .	1
1.2 State of the Art . . . . .	6
1.3 Thesis Objectives . . . . .	11
1.4 Thesis Outline . . . . .	11
<b>2 Research Methodology and Model Validation</b>	<b>13</b>
2.1 Numerical Simulations . . . . .	13
2.1.1 The FLOWer Solver . . . . .	13
2.1.2 Approaches to turbulent flow computation . . . . .	13
2.1.2.1 Reynolds-averaged Navier-Stokes equations (RANS) . .	13
2.1.2.2 Hybrid LES/RANS simulation method . . . . .	15
2.1.3 Numerical setup . . . . .	18
2.1.4 Noise prediction in VAWT . . . . .	18
2.1.5 Inflow Turbulence generation . . . . .	20
2.1.5.1 Mann's turbulence generation . . . . .	20
2.1.5.2 Modelling setup . . . . .	22
2.2 Darrieus vertical axis wind turbine . . . . .	24
2.2.1 Darrieus VAWT noise . . . . .	24
2.2.2 Model validation . . . . .	25
2.2.2.1 Spatial and time discretization . . . . .	25
2.2.2.2 Aerodynamic model validation . . . . .	31

2.2.2.3	Turbulence modeling approaches . . . . .	38
2.2.2.4	Aeroacoustic model validation . . . . .	40
<b>3</b>	<b>Numerical Investigation of Noise Generation Mechanisms of a Darrieus VAWT</b>	<b>43</b>
3.1	Turbine noise . . . . .	43
3.1.1	Defining the acoustic pressure field . . . . .	44
3.1.2	Instantaneous noise mechanisms of H-Rotor VAWT . . . . .	46
3.1.3	Time-averaged noise mechanisms in H-Rotor VAWT . . . . .	54
3.2	Contribution of blade segments to noise . . . . .	58
3.3	Impact of airfoil thickness . . . . .	62
3.4	Impact of turbine solidity . . . . .	66
3.4.1	Constant aspect ratio . . . . .	67
3.4.2	Different aspect ratios . . . . .	72
3.5	VAWT geometrical up-scaling . . . . .	77
3.6	Summary . . . . .	80
<b>4</b>	<b>Impact of terrain on the performance of Darrieus VAWT</b>	<b>83</b>
4.1	Impact of isotropic small scale turbulence . . . . .	83
4.1.1	Turbulence generation . . . . .	83
4.1.2	Aerodynamics . . . . .	85
4.1.3	Aeroacoustics . . . . .	89
4.2	Performance evaluation of VAWT in different terrains . . . . .	95
4.2.1	Methodology . . . . .	96
4.2.2	Results . . . . .	98
4.2.2.1	Aerodynamics . . . . .	98
4.2.2.2	Aeroacoustics . . . . .	108
4.3	Summary . . . . .	108
<b>5</b>	<b>Unconventional Darrieus VAWT</b>	<b>115</b>
5.1	Wind-lens . . . . .	115
5.1.1	Aerodynamic performance assessment . . . . .	116
5.1.2	Aeroacoustic performance assessment . . . . .	119
5.2	Fixed guide-vanes . . . . .	123
5.2.1	Aerodynamic performance assessment . . . . .	123
5.2.2	Aeroacoustic performance assessment . . . . .	127
5.3	Blade endplate . . . . .	128
5.3.1	Aerodynamic performance assessment . . . . .	129
5.3.2	Aeroacoustic performance assessment . . . . .	134
5.4	Summary . . . . .	136

<b>6</b>	<b>Conclusions and Recommendations</b>	<b>137</b>
6.1	Conclusions . . . . .	137
6.1.1	Noise mechanisms and design parameters . . . . .	137
6.1.2	Inflow turbulence level and impact of terrain . . . . .	138
6.1.3	Unconventional turbine configurations . . . . .	139
6.2	Recommendations . . . . .	139
	<b>References</b>	<b>143</b>