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| Autore                  | Montazerin Nader                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Descrizione fisica      | 1 online resource (155 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Soggetti                | Turbomachines - Fluid dynamics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Nota di bibliografia    | Includes bibliographical references at the end of each chapters and<br>index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nota di contenuto       | Front Cover; Related titles; Developments in Turbomachinery Flow:<br>Forward Curved Centrifugal Fans; Copyright; Dedication; Contents; List<br>of figures; List of tables; About the authors; Preface; 1 - General<br>introduction of forward-curved squirrel-cage fan; 1.1 Introduction; 1.2<br>Fan geometry; 1.3 Flow field; 1.4 Fan performance and noise<br>measurements; 1.5 Fluid-flow simulation in centrifugal fans; 1.6<br>Velocity measurement techniques and their considerations; 1.7 Final<br>remarks; Further reading; 2 - Inlet configuration; 2.1 Why the inlet is<br>important?; 2.2 Bell-mouth inlet; 2.3 Outward inlet<br>2.4 Final remarksFurther reading; 3 - Rotor; 3.1 Half-cone rotors; 3.2<br>Lean angle in rotor blades; Further reading; 4 - Volute; 4.1 Volute flow;<br>4.2 Slip factor; 4.3 Volute optimization; 4.4 Volute width; 4.5 Double-<br>outlet volute; 4.6 Final remarks; Further reading; 5 - Noise in forward-<br>curved centrifugal fans; 5.1 Sound parameters; 5.2 Different types of<br>noise; 5.3 Modelling of sound generation in fans; 5.4 Effect of fan<br>components on sound generation; 5.5 Sound generation of double-<br>outlet squirrel-cage fans; 5.6 Final remarks; Further reading<br>6 - Contribution of jet-wake-volute interactions to flow characteristics<br>and turbulence models6.1 Role of nonintrusive measurements on<br>examination of complicated turbulent flows; 6.2 Jet-wake interactions<br>with the volute flow; 6.3 Geometrical characteristics of tensorial-flow |

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|                    | quantities; 6.4 Challenges in turbulence modelling; 6.5 Final remarks; References; Index                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sommario/riassunto | Developments in Turbomachinery Flow: Forward Curved Centrifugal Fans explores the forward curved squirrel cage fan as an excellent instrument for fluid mechanics research in turbomachines. The book explores phenomena such as jet/wake interaction, circulation, separation and noise in turbomachines, also addressing the characteristics that are specific to this fan and applications in other centrifugal turbomachines. Chapters begin with a general introduction that includes research techniques and a survey of older research, and then proceed into a detailed description of improvements for d |

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| 2. Record Nr.           | UNINA9910986780603321                                                                                                                                                                                                |
| Autore                  | Puccini, Giacomo <1858-1924>                                                                                                                                                                                         |
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