1. Record Nr. UNINA9910165142203321

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| Autore | Farjon Aljos |
| Titolo | A handbook of the world's conifers / / by Aljos Farjon |
| Pubbl/distr/stampa | Boston : , : Brill, , 2017 |
| ISBN | 90-04-32451-8 |
| Edizione | [Second, revised edition.] |
| Descrizione fisica | 1 online resource (1,153 pages) : illustrations |
| Disciplina | 585 |
| Soggetti | Conifers<br>Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Preliminary Material -- The conifers of the world, an introduction -- The distribution and ecology of conifers -- The economic importance of conifers -- The conservation of conifer diversity -- Synopsis of families and genera -- Taxonomic treatment of families, with keys to families and genera -- Taxonomic treatment of genera and species -- Appendix -- Glossary -- References -- Lists of illustrations -- Index to botanical names of conifers. |
| Sommario/riassunto | A 2017 Choice Magazine "Outstanding Academic Title" Conifers are known to everyone as a conspicuous kind of evergreen trees or shrubs that feature prominently in gardens and parks as well as in many managed forests in the cool to cold temperate regions of the Northern Hemisphere. Numerous books have been written about them and continue to appear, mostly with a bias towards these uses in Europe and North America. This second edition, revised and updated, of A Handbook of the World's Conifers is departing from this traditional approach in that it includes all the world's 615 species of conifers, of which some 200 occur in the tropics. It gives as much information about these and the Southern Hemisphere conifers as about the better known species, drawing on research into the taxonomy, biology, ecology, distribution and uses by the author over nearly 35 years. The result is a truly encyclopedic work, a true handbook of all the world's conifers, richly illustrated by the author with his line drawings and photographs taken from the natural habitats of the species. |

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| Record Nr. | UNINA9910795214203321 |
| Autore | Thygesen Rene |
| Titolo | Development of a partially premixed combustion model for a diesel engine using multiple injection strategies / / Rene Thygesen |
| Pubbl/distr/stampa | Berlin : , : Logos Verlag, , [2012]<br>©2012 |
| ISBN | 3-8325-9702-6 |
| Descrizione fisica | 1 online resource (160 pages) |
| Disciplina | 621.436 |
| Soggetti | Diesel engines - Models |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | PublicationDate: 20120229 |
| Sommario/riassunto | Long description: In order to fulfil future emissions legislations, new combustion systems are to be investigated. One way of improving exhaust emissions is the application of multiple injection strategies and conventional or partially premixed combustion conditions to a Diesel |

engine. The application of numerical techniques as CFD supports and improves the quality of engine developments. Unfortunately, current spray and combustion models are not accurate enough to simulate multiple injection systems, being in this way a topic of research. The goal of this study was the development of a novel simulation method for the investigation of Diesel engines operated with multiple injection strategies and different combustion modes. The first part of this work focused in improving the spray modelling. The inform ation of 3D CFD simulations of the injector nozzle was introduced in the spray simulation as boundary conditions developing coupling subroutines for this issue. The atomisation modelling was also improved using validated presumed droplet size distributions. Moreover, to avoid the simulation of the injector nozzle for every investigated operating point, a novel interpolating tool was developed in order to create spray boundary conditions based on few 3D CFD simulations of the nozzle under certain initial and boundary conditions. The second part of this thesis dealt with the combustion modelling of Diesel engines. For this issue, a laminar flamelet approach called Representative Interactive Flamelet model (RIF) was selected and implemented. Afterwards, an extended combustion model based on RIF was developed in order to take into account multiple injection strategies. Finally, this new model was validated with a wide range of operating points: applying multiple injection strategies under conventional and partially premixed combustion conditions.