

Copyright Release Form

The work presented in this dissertation is organized in five standalone manuscripts that appear as five chapters. Chapter 2 of this dissertation has appeared in the Physics of Fluids which belongs to the publishing company, American Institute of Physics (AIP). According to the copyright policies of AIP Publishing, the authors retain the right to reproduce the article in whole or in part in a thesis or dissertation written by the authors provided acknowledgment is given to the original source of publication. An acknowledgment to the original published article has been prominently placed at the beginning of chapter 2. Detailed information on the copyright policy of AIP Publishing can be found on <https://publishing.aip.org/resources/researchers/rights-and-permissions/permissions/>. The published article is available at: <https://aip.scitation.org/doi/10.1063/1.5000827>.

Chapter 3 of this dissertation has appeared in the Tribology International, which belongs to the publishing company, Elsevier. According to the copyright policies of Elsevier, the authors can use their articles, in full or in part, for inclusion in a thesis or dissertation (provided that this is not to be published commercially). Therefore, the permission to include this paper in this dissertation is granted. Detailed information on the copyright policies of Elsevier can be found at the link: <https://www.elsevier.com/about/policies/copyright>. The published article can be found at: <https://www.sciencedirect.com/science/article/pii/S0301679X18304262>.

Chapter 4 of this dissertation has appeared in the Journal of Fluid Mechanics, which belongs to the publishing company, Cambridge University Press. According to the copyright policies of Cambridge University Press, the authors retain the right to reproduce the article in whole or in part in a thesis or dissertation written by the authors provided that a full acknowledgment of the original publication, together with the copyright notice and the phrase “Reprinted with permission” are included. An acknowledgment to the original published article has been prominently placed at the beginning of chapter 4. Detailed information on the copyright policy of Cambridge can be found on <https://www.cambridge.org/about-us/rights-permissions/faqs/>. The published article can be found at: <https://www.cambridge.org/core/journals/journal-of-fluid-mechanics/article/load-and-loss-for-highspeed-lubrication-flows-of-pressurized-gases-between-nonconcentric-cylinders/14052027F33611287625E36D7C28B4D3>.

Chapter 5 of this dissertation has appeared in the Fluids, which belongs to the open access publishing company, MDPI. Therefore, no permissions are required. The published article can be found at: <https://www.mdpi.com/2311-5521/4/1/27>.

Chapter 6 of this dissertation has not yet appeared in any journal, and therefore, no permissions are required.