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Titolo	Developments in the Flow of Complex Fluids in Tubes // by Dennis A. Signer
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ISBN	3-319-02426-4
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (169 p.)
Disciplina	620 620.1 620.1064 621.4021
Soggetti	Fluid mechanics Thermodynamics Heat engineering Heat - Transmission Mass transfer Mechanics Mechanics, Applied Engineering Fluid Dynamics Engineering Thermodynamics, Heat and Mass Transfer Solid Mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Longitudinal Flow Field of Viscoelastic Fluids -- Transversal Flow Field of Viscoelastic Fluids -- Transcriticality -- Quasi-Periodic Flows of Viscoelastic Fluids in Straight Tubes -- Transversal Flow Field of Particle Laden Linear Fluids -- Epilogue -- Appendix I -- Appendix II.
Sommario/riassunto	This book is dedicated to the tube flow of viscoelastic fluids and Newtonian single and multi-phase particle-laden fluids. This succinct volume collects the most recent analytical developments and experimental findings, in particular in predicting the secondary field,

highlighting the historical developments which led to the progress made. This book brings a fresh and unique perspective and covers and interprets efforts to model laminar flow of viscoelastic fluids in tubes and laminar and turbulent flow of single and multi-phase particle-laden flow of linear fluids in light of the latest findings. This book also: Presents a thorough account of successes and failures in modeling and predicting tube flow of viscoelastic fluids and concentrated particle-laden flow of Newtonian fluids with specific explanations throughout Emphasizes the most up-to-date challenges in the field without requiring the reader to wade through detailed treatment of various theories Bridges the latest research results and established knowledge from the archival literature.

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