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Nota di contenuto	Front Matter -- Contents -- Notes on contributors -- List of acronyms -- Introduction -- Introduction -- 'Lucy': The Barriers to Accessing Advice -- A Reflection on Case Study One: The Barriers to Accessing Advice -- Citizens Advice in Austere Times -- The Advice Conundrum: How to Satisfy the Competing Demands of Clients and Funders. An Interview with Gail Bowen-Huggett -- The Shift to Digital Advice and Benefit Services: Implications for Advice Providers and Their Clients -- Introduction -- 'Laura': The Effect of Fees Upon the Employment Tribunal Process -- A Reflection on Case Study Two: Laura and the Effect of Fees -- The Costs of Justice: Barriers and Challenges to Accessing the Employment Tribunal System -- Justice and Legal Remedies in Employment Disputes: Adviser and Advisee Perspectives -- Precarity and 'Austerity': Employment Disputes and Inequalities -- Introduction -- 'Brian': An Unrepresented Claimant -- A Reflection on Case Study Three: 'Brian' -- Power and Legality in Benefits Advice -- Getting from the Story of a Dispute to the Law -- "Advice on the Law But Not Legal Advice So Much": Weaving Law and Life Into Debt Advice

Sommario/riassunto

Available Open Access under CC-BY-NC licence. In a world dominated by austerity politics and policies, Advising in austerity provides a lively and thought-provoking account of the conditions, consequences and challenges of advice work in the UK, presenting a rare and rich view of the world of advice giving. Based on original research it examines how advisors negotiate the private troubles of those who come to Citizens Advice Bureaux (CAB) and construct ways forward. Exploring how advisors are trained, the strong contributor team reflect on the challenges facing Citizens Advice Bureaux in the future, where austerity will ensure that the need for advice services increase, while funding for such services declines.

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Nguyen-Schäfer Hung

Rotordynamics of Automotive Turbochargers / / by Hung Nguyen-Schäfer

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[2nd ed. 2015.]

1 online resource (367 p.)

Springer Tracts in Mechanical Engineering, , 2195-9862

621.8

Automotive engineering

Vibration

Dynamics

Fluid mechanics

Thermodynamics

Heat engineering

Heat - Transmission

Mass transfer

Automotive Engineering

Vibration, Dynamical Systems, Control

Engineering Fluid Dynamics

Engineering Thermodynamics, Heat and Mass Transfer

Inglese

Materiale a stampa

Livello bibliografico**Monografia****Note generali**

Description based upon print version of record.

Nota di bibliografia

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Nota di contenuto

Turbocharging Concepts -- Thermodynamics of Turbochargers -- Vibrations of Turbochargers -- Stability Analysis of Rotordynamic Behaviors -- Linear Rotordynamics of Turbochargers -- Bearing Dynamics of Turbochargers -- Nonlinear Rotordynamics of Turbochargers -- Rotor Balancing in Turbochargers -- Design of Turbocharger Platforms.

Sommario/riassunto

Rotordynamics of automotive turbochargers is dealt with in this book encompassing the widely working field of small turbomachines under real operating conditions at the very high rotor speeds up to 300000 rpm. The broadly interdisciplinary field of turbocharger rotordynamics involves 1) Thermodynamics and Turbo-Matching of Turbochargers 2) Dynamics of Turbomachinery 3) Stability Analysis of Linear Rotordynamics with the Eigenvalue Theory 4) Stability Analysis of Nonlinear Rotordynamics with the Bifurcation Theory 5) Bearing Dynamics of the Oil Film using the Two-Phase Reynolds Equation 6) Computation of Nonlinear Responses of a Turbocharger Rotor 7) Aero and Vibroacoustics of Turbochargers 8) Shop and Trim Balancing at Two Planes of the Rotor 9) Tribology of the Bearing Surface Roughness 10) Design of Turbocharger Platforms using the Similarity Laws. The rotor response of an automotive turbocharger at high rotor speeds is studied analytically, computationally, and experimentally. Due to the nonlinear characteristics of the oil-film bearings, some nonlinear responses of the rotor besides the harmonic response 1X, such as oil whirl, oil whip, and modulated frequencies occur in Waterfall diagram. Additionally, the influences of the surface roughness and oil characteristics on the rotor behavior, friction, and wear are discussed. This book is written by an industrial R&D expert with many years of experience in the automotive and turbocharger industries. The all-in-one book of turbo-chargers is intended for scientific and engineering researchers, practitioners working in the rotordynamics field of automotive turbochargers, and graduate students in applied physics and mechanical engineering.