

1. Record Nr.	UNISA996384012303316
Autore	Brown William <17th/18th cent.>
Titolo	A compendivm of the several branches of practice in the Court of Exchequer, at Westminster [[electronic resource] ] : viz. 1. His Majesties revenue, 2. proceedings by English bill, 3. actions at law brought in the Office of Pleas : with commissions, injunctions and other process and pleadings relating thereunto
Pubbl/distr/stampa	London, : Printed by the assigns of R. and E. Atkins Esqs. for H. Mortlocke ..., 1688
Descrizione fisica	[14], 548, [i.e. 516], [12] p
Soggetti	Civil procedure - Great Britain Forms (Law) - Great Britain
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Reproduction of original in Cambridge University Library. Attributed to William Brown. cf. NUC pre-1956. Index: p. [1]-[10] at end.
Sommario/riassunto	eebo-0021

2. Record Nr.	UNINA9911009174703321
Autore	Riley David (Professor of physics)
Titolo	Warm dense matter : laboratory generation and diagnosis / / David Riley
Pubbl/distr/stampa	Bristol, UK : , : IOP Publishing Ltd, , [2021] ©2021
ISBN	9780750340748 9780750323475 0750323477 9780750323482 0750323485 9780750323468 9780750323499
Edizione	[1st ed.]
Descrizione fisica	1 online resource (various pagings) : illustrations (some color)
Collana	IOP series in plasma physics
Disciplina	530.4/43
Soggetti	Plasma density Condensed matter
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Version: 20210204"--Title page verso.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Background and context to warm dense matter -- 1.1. Introduction -- 1.2. Features of warm dense matter -- 1.3. Effects of warm dense matter on electronic structure -- 1.4. Equations of state for warm dense matter -- 1.5. Creating and probing warm dense matter 2. Shock and ramp compression -- 2.1. General background -- 2.2. Directly driven shocks with intense lasers -- 2.3. X-ray driven shocks -- 2.4. Ion beam driven shocks -- 2.5. Flyer plate methods -- 2.6. Impedance matching -- 2.7. Diamond anvil cells 3. Volumetric heating of warm dense matter -- 3.1. X-ray heating -- 3.2. Proton and heavy ion heating -- 3.3. Fast electron heating 4. X-ray diagnostics -- 4.1. X-ray dispersion and detection -- 4.2. X-ray scattering -- 4.3. X-ray absorption measurements -- 4.4. X-ray phase contrast imaging -- 4.5. X-ray emission spectroscopy 5. Optical diagnostics -- 5.1. Streak cameras -- 5.2. Optical pyrometry measurements -- 5.3. VISAR measurements -- 5.4. Frequency domain

interferometry -- 5.5. Reflectivity measurements

6. Facilities for warm dense matter research -- 6.1. Introduction -- 6.2.

Laser facilities -- 6.3. X-ray free electron laser facilities -- 6.4. Ion

beam facilities -- 6.5. Z-pinch facilities -- 6.6. Summary.

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## Sommario/riassunto

This book provides an introductory overview of warm dense matter research for new postgraduate students entering the field. Author David Riley, based at the Centre for Plasma Physics at Queen's University Belfast, covers a broad range of topics with an emphasis on experimental techniques. The text begins with an introduction to the basic physics of warm dense matter and its important features, then moves on to discuss the principal techniques for creating warm dense matter and approaches to diagnosing it. Topics covered include the generation of warm dense matter via laser driven shocks and X-ray sources, explosives, gas guns and ion beams, as well as X-ray free electron lasers. Principal optical and X-ray diagnostics are also discussed. The book concludes with an overview of the large-scale facilities that are most commonly used for warm dense matter research and the technologies they employ. Part of IOP Series in Plasma Physics.

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