

1. Record Nr.	UNINA9911006886903321
Autore	Nagarajan Ganapathy
Titolo	Textile mechanisms in spinning and weaving machines // Ganapathy Nagarajan
Pubbl/distr/stampa	[Place of publication not identified] : , : WPI Publishing, , 2014
ISBN	1-5231-4783-0 0-367-80562-6 93-80308-94-9
Descrizione fisica	1 online resource (385 pages)
Collana	Woodhead Publishing India in textiles
Disciplina	658
Soggetti	Spinning machinery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Preface. Foreword. Belt, rope and chain drives. Gear trains. Rotary motion. Equations of movement. Parallelogram of velocities. Force, mass and momentum. Work and power. Resolution of forces. Centre of gravity. Principle of moments. Friction. Coil friction. Lifting machines and velocity ratio. Stress, strain and elasticity. Momentum energy impulsive forces and impact. Motion in a circle. Simple harmonic motion. Moments of inertia and kinetic energy of rotating bodies. Practical methods of finding moment of inertia. Cams.
Sommario/riassunto	This book has been written in response to numerous suggestions and great interest of colleagues and students in the textile industry to note the various design aspects in the mechanics of the textile machineries. It provides information about the mechanics involved in the machineries like transmission of power through various means of driving arrangement available in the textile machineries. In addition, many practical problems have been included in the calculations of differential gear assembly in the speed frame process and also the design of cone drums in blow room/speed frame machineries.