1. Record Nr. UNINA9910298625003321 Autore Liew Yun Hsien Willey Titolo Towards Green Lubrication in Machining / / by Willey Liew Yun Hsien Singapore:,: Springer Singapore:,: Imprint: Springer,, 2015 Pubbl/distr/stampa **ISBN** 981-287-266-3 Edizione [1st ed. 2015.] Descrizione fisica 1 online resource (53 p.) SpringerBriefs in Green Chemistry for Sustainability, , 2212-9898 Collana Disciplina 363.737 54 660 670 Soggetti Chemical engineering Manufactures Pollution prevention Industrial Chemistry/Chemical Engineering Manufacturing, Machines, Tools, Processes Industrial Pollution Prevention 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 -- Utilisation of Vegetable Oil as Bio-Lubricant and Additive -- Utilisation of Vegetable Oil, Solid Lubricant, Mist Lubrication, Minimum Quantity Lubrication (MQL) in Machining --Utilisation of Environmental Friendly Gaseous and Vapour in Machining -- Conclusions. The book gives an overview of environmental friendly gaseous and Sommario/riassunto vapour, refrigerated compressed gas, solid lubricant, mist lubrication, minimum quantity lubrication (MQL) and vegetable oils that can be used as lubricants and additives in industrial machining applications. This book introduces vegetable oils as viable and good alternative resources because of their environmental friendly, non-toxic and readily biodegradable nature. The effectiveness of various types of vegetables oils as lubricants and additives in reducing wear and friction is discussed in this book. Engineers and scientist working in the field of

lubrication and machining will find this book useful.