



ENQ410030 – Thermal Conversion of Biomass

Biomass classification. Physicochemical characterization. Conversion Processes: Torrefaction, Pyrolysis, Gasification, Combustion. Mass and energy balance. Control of emissions from thermochemical conversion processes.

Bibliografia:

1. SAJWAN, K.S.; ALVA, A.K.; PUNSHON, T.; TWARDOWSKA, I. Coal Combustion Byproducts and Environmental Issues. New York, NY: Springer Science+Business Media, Inc., 2006. [Springer e-book].
2. GARCIA, R. Combustíveis e Combustão Industrial. Rio de Janeiro: Interciência, 2a edição, 2013. 358 p. ISBN: 9788571933033.
3. BRAND, M. A. Energia de biomassa florestal. Rio de Janeiro: Interciência, 2010. xvi, 114 p. ISBN 9788571932449.
4. BAJPAI, P., Biomass to Energy Conversion Technologies, Elsevier, 2019. ISBN: 9780128184004