Chamil Abeykoon  
Academic (Teaching & Research) Lecturer  
Materials Science Centre  

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**Employment**  
**Lecturer**  
Academic (Teaching & Research) Lecturer  
Materials Science Centre  
The University of Manchester  
1 Oct 2015 → present

**Research output**  

**Design and Analysis of a Kaplan Turbine Runner Wheel**  

**The Effect of Materials, Process Settings and Screw Geometry on Energy Consumption and Melt Temperature in Single Screw Extrusion**  
DOI: 10.1016/j.apenergy.2016.07.014

**Soft Sensing of Melt Temperature in Polymer Extrusion**  
Abeykoon, C. Jul 2016 host publication.

**Single screw extrusion control - A comprehensive review and directions for improvements**  
DOI: 10.1016/j.conengprac.2016.03.008

**Heat Transfer Enhancement of a Biodiesel Heater**  
Abeykoon, C. Sep 2015 host publication.

**Modelling of a wind power turbine**  

**Modelling of a turbojet gas turbine engine**  

**A novel model-based controller for polymer extrusion**  
DOI: 10.1109/TFUZZ.2013.2293348

**Monitoring and Modelling of the Energy Consumption in Polymer Extrusion**  
A Novel Soft Sensor for Real-time Monitoring of Die Melt Temperature Profile in Polymer Extrusion
DOI: 10.1109/TIE.2014.2321345

Dynamic Modelling of Die Melt Temperature Profile in Polymer Extrusion: Effects of Process Settings, Screw Geometry and Material
DOI: 10.1016/j.apm.2013.08.004

Improving the Performance of Shell-and-Tube Heat Exchangers by the Addition of Swirl
DOI: 10.1504/IJPSE.2014.066691

Investigation of the Process Energy Demand in Polymer Extrusion: A Review and an Experimental Study
DOI: 10.1016/j.apenergy.2014.09.024

Investigation of the Temperature Homogeneity of Die Melt Flows in Polymer Extrusion
DOI: 10.1002/pen.23784

Process Efficiency in Polymer Extrusion: Correlations between the Energy Demand and Melt Thermal Stability

The effect of melt viscosity on thermal efficiency for single screw extrusion of HDPE

Dynamic modelling of die melt temperature profile in polymer extrusion

Investigation of Correlations between Process Thermal Stability and Energy Demand in Polymer Extrusion

The Effect of Molecular Weight on Thermal Efficiency for Single Screw Extrusion of HDPE

Polymer Extrusion: A Study on Thermal Monitoring Techniques and Melting Issues

A review and evaluation of melt temperature sensors for polymer extrusion

Monitoring and Modelling of the Effects of Process Settings and Screw Geometry on Melt Pressure Generation in Polymer Extrusion
Extruder Melt Temperature Control With Fuzzy Logic

Modelling of Melt Pressure Development in Polymer Extrusion: Effects of Process Settings and Screw Geometry

A new model based approach for the prediction and optimization of thermal homogeneity in single screw extrusion

The inferential monitoring of screw load torque to predict process fluctuations in polymer extrusion

Modelling the effects of operating conditions on die melt temperature homogeneity in single screw extrusion

Modelling the effects of operating conditions on motor power consumption in single screw extrusion

Monitoring the effect of operating conditions on melt temperature homogeneity in single-screw extrusion

Key considerations for a sustainable plastics industry
Abeykoon, C. 2010 In : Institute of Certified Professional Managers-Sri Lanka. 1, 2, p. 6-9

Investigation of torque fluctuations in extrusion through monitoring of motor variables

Experimental investigation of condensation heat transfer coefficient of refrigerants during in tube condensation
Rajapaksha, L. & Abeykoon, C. Nov 2007 host publication.

Activities