

# Handbuch Der Mechanischen Fest Flüssig Trennung

Handbuch der mechanischen Fest-Flüssig-Trennung Die Fest-Flüssig-Trennung. Methodik zur Auswahl und Bewertung von Technologien Fest-Flüssig-Trennung mit Filterpressen Fest-Flüssig-Trennung in Tellerseparatoren Mechanische Fest-Flüssig-Trennung durch Kuchenfiltration Filter zur Fest-flüssig-Trennung [1] Filter zur Fest-flüssig-Trennung [2] Möglichkeiten der fest/flüssig-Trennung mittels Bandfiltern Untersuchung der Fest - Flüssig - Trennung eines Gärrestaufschlusses mittels Hydrozyklon Maschinen + Apparate zur Fest-Flüssig-Trennung Anwendung der kombinierten Flockung bei der Fest/Flüssig-Trennung in der Steinkohlenaufbereitung Fest-flüssig-Trennung von Suspensionen durch Wirkung von Grenzflächenspannungen und Massenkräften Fest-Flüssig-Trennung Mechanische Fest-Flüssig-Trennung von Trüben mit Hilfe von Polyelektrolyten Flüssiges obst Fortschrittsberichte für die Landwirtschaft und Nahrungsgüterwirtschaft Erzmetall Scientific studies of the Research Institute of Plant Production in Prague-Ruzyni Süßwasser aus dem Meer Dechema-Monographien Klaus Luckert Bünyamin Argac D. Schmidt Eva D. L. Böndel Gesellschaft Verfahrenstechnik und Chemieingenieurwesen Heinz Robel Heinz Robel Ulrich Wilke Wolfgang Hess Manfred Kaiser Jochen Wangermann Werner Helmut Stahl Sylvia Christina Parker

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bachelorarbeit aus dem jahr 2021 im fachbereich ingenieurwissenschaften maschinenbau note 1 3 ruhr universität bochum thermo und fluiddynamik veranstaltung fluidverfahrenstechnik sprache deutsch abstract das ziel dieser arbeit ist die erweiterung der methodik zur auswahl von technologien der fest flüssig trennung um dies zu gewährleisten wird erst die fest flüssig trennung vorgestellt anschließend werden verschiedene trennverfahren der fest flüssig trennung vorgestellt wobei der fokus dieser arbeit auf der filtration und sedimentation liegt zudem werden die beiden diskontinuierlichen apparate der filterpresse und der röhrenzentrifuge welche in dieser arbeit genutzt werden vorgestellt danach erfolgt die vorstellung der matching matrix mit den technischen und bewertenden kriterien in dieser arbeit wird die fest flüssig matching matrix von schindel et al mit den technischen kriterien von bahadur übernommen zuletzt wird das bewertende kriterium der flexibilität vorgestellt und abschließend wird die matching matrix in bezug auf die filterpresse und der röhrenzentrifuge mit den kriterien ausgewertet die fest flüssig trennung ist in der industrie eine der meist genutzten trenntechniken besonders bei der herstellung von pharmazeutika und feinchemischen produkten wird sie als grundoperation genutzt sie findet aber auch anwendung in bereichen wie die mineral erz und abwasseraufbereitung da sich die marktanforderungen jedoch mit der zeit ändern haben die produkte immer kürzere lebenszyklen und zudem wird erwartet dass die prozesse immer effizienter und flexibler sein müssen die fest flüssig trennung in der feinchemie branche und in der pharmaindustrie erfolgt zur zeit am häufigsten im batch betrieb wo die flüssigkeit und der feststoff manuell aus der apparatur entnommen werden müssen um den aktuellen marktanforderungen und den prozessbedingungen gerecht werden zu können kann durch den abgleich mit den technologieigenschaften eine systematische auswahl von diskontinuierlichen fest flüssig technologien erreicht werden dies kann ermöglicht werden wenn eine matching matrix mit technischen und bewertenden kriterien für eine schnelle auswahl identifiziert und die technologien einheitlich charakterisiert werden dementsprechend muss eine schnelle auswahl von technologien ermöglicht werden damit geeignete technologien gewählt werden können das aktuelle problem in diesem bereich ist jedoch dass bisher nur kontinuierliche technologien ausgewählt werden können und nicht die momentan häufiger eingesetzten batch technologien außerdem ist bisher nur ein ausschluss über technische kriterien und nicht über bewertende kriterien möglich

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