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@inbook{DAS2019,
    author = {Das, Supradip and Rijas, M. and Das, Amarendra},
    year = {2019},
    month = {01},
    pages = {745-755},
    title = {DOT: Design of a Space-Saving Furniture with Prototype-Driven
Innovation Approach: Proceedings of ICoRD 2019 Volume 1},
    url =
{https://link.springer.com/chapter/10.1007%2F978-981-13-5974-3_65},
    isbn = {978-981-13-5973-6},
    doi = {10.1007/978-981-13-5974-3_65},
        address = "{[Accessed in March 2021]}"
}

@misc{WANG2013,
    series={Undergraduate Research},
    title={An analysis of transformable space saving furniture},
url={https://open.library.ubc.ca/collections/undergraduateresearch/52966/ite
ms/1.0103142},
    DOI={http://dx.doi.org/10.14288/1.0103142},
    author={Wang, Shiyao},
        year={2013},
    month={Apr},
    collection={Undergraduate Research},
        address = "{[Accessed in March 2021]}"
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@article{ANSARI2018,
    author = {Ansari, Samira and Nikpay, Ahmad and Varmazyar, Sakineh},
    year = {2018},
    month = {10},
    pages = {e60531},
    title = {Design and Development of an Ergonomic Chair for Students in
Educational Settings},
    url = {https://sites.kowsarpub.com/healthscope/articles/60531.html},
    volume = {7},
        issue = {4},
        doi = {10.5812/jhealthscope.60531},
    journal = {Health Scope},
    doi = {10.5812/jhealthscope.60531},
        address = "{[Accessed in March 2021]}"
}

@misc{POOJA2019,
    author = {Pooja Khanna Tyagi},
    title = {What is ergonomic furniture?},
    year = 2019,
    url =
{https://www.houzz.in/magazine/what-is-ergonomic-furniture-stsetivw-vs~11906
5047},
    urldate = {2021-03-18},
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    address = "{[Accessed in March 2021]}"
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@misc{GUILLAUME2015,
    author = {Guillaume Bouvet},
    title = {AZ Desk},
    year = 2015,
    url = {https://www.guillaumebouvet.com/projects/az-desk},
    urldate = {2021-03-16},
    address = "{[Accessed in March 2021]}"
}

@misc{PHILIPPSUSSMANN2015,
    author = {Philipp Sussmann},
    title = {IKEA Hacka},
    year = {2015},
    url = {https://www.sussmann-studio.com/ikeahacka},
    urldate = {2021-03-19},
    address = "{[Accessed in March 2021]}"
}

@misc{JACKARCHER2021,
    author = {Jack Archer},
    title = {Finally, an affordable sit-to-stand adjustable desk},
    year = 2021,
    url =
{https://airows.com/interiors-and-home/most-affordable-sit-to-stand-adjustab
le-desk},
    urldate = {2021-03-24},
    address = "{[Accessed in March 2021]}"
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@misc{LAURENRO2017,
    author = {Lauren Ro},
    title = {New wooden standing desk is Scandinavian-inspired and totally
cute},
    year = 2017,
    url =
{https://archive.curbed.com/2017/1/17/14300000/jaswig-standup-nomad-standing
-desk-wood-scandinavian},
    urldate = {2021-03-24},
    address = "{[Accessed in March 2021]}"
}

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    author = {Jenny Brewer},
    title = {Modular desk by Francois Dransart},
    year = 2013,
    url =
{https://www.onofficemagazine.com/design/modular-desk-by-francois-dransart},
    urldate = {2021-03-24},
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    address = "{[Accessed in March 2021]}"
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@misc{CAROLINEWILLIAMSON2012,
    author = {Caroline Williamson},
    title = {Energy-Producing Workspace by Eddi Törnberg},
    year = 2012,
    url =
{https://design-milk.com/energy-producing-workspace-by-eddi-tornberg/?utm_so
urce=feedburner&utm_campaign=Feed:+design-milk+(Design+Milk)},
    urldate = {2021-03-24},
    address = "{[Accessed in March 2021]}"
}

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    author = {Matthew Moore},
    title = {The Sit-Stand Desk by Mateo},
    year = 2020,
    url = {https://www.indiegogo.com/projects/the-sit-stand-desk-by-
mateo#/},
    urldate = {2021-03-24},
    address = "{[Accessed in March 2021]}"
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@misc{IKEA2016,
    author = {Ikea},
    title = {Bekant desk},
    year = 2016,
    url = {https://www.ikea.com/nl/nl/p/bekant-bureau-zit-sta-wit-
s69022537/},
    urldate = {2021-03-25},
    address = "{[Accessed in March 2021]}"
}

@misc{YAASA2020,
    author = {Yaasa},
    title = {Yaasa desk},
    year = 2020,
    url = {https://shop.yaasa.eu/yaasa/desk-basic-135-70},
    urldate = {2021-03-25},
    address = "{[Accessed in March 2021]}"
}
@misc{VIVO2020,
    author = {Vivo},
    title = {Desk-kit-2E1B},
    year = 2020,
    url =
{https://vivo-us.com/collections/standing-desks/products/desk-kit-2e1b},
    urldate = {2021-03-25},
    address = "{[Accessed in March 2021]}"
}
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@misc{ALLCAM2020,
    author = {Allcam},
    title = {Allcam Desk–Ergonomic Height-adjustable Sit-stand Workstation
for Home Working},
    year = 2020,
    url =
{https://www.allcam.biz/shop/allcam-desk-ergonomic-height-adjustable-sit-sta
nd-workstation-for-home-working/},
    urldate = {2021-03-26},
    address = "{[Accessed in March 2021]}"
}
@article{PANAGIOTOPOULOU2004121,
    title = {Classroom furniture dimensions and anthropometric measures in
primary school},
    journal = {Applied Ergonomics},
    volume = {35},
    number = {2},
    pages = {121-128},
    year = {2004},
    issn = {0003-6870},
    doi = {https://doi.org/10.1016/j.apergo.2003.11.002},
    url =
{https://www.sciencedirect.com/science/article/pii/S0003687004000067},
    author = {Georgia Panagiotopoulou and Kosmas Christoulas and Anthoula
Papanckolaou and Konstantinos Mandroukas},
    keywords = {Classroom furniture, Anthropometric measurements, Primary
school students},
    abstract = {The purpose of this study was to compare students'
dimensions to the dimension of school furniture, in primary school, and
determine whether this type of furniture is well-designed and promotes good
sitting posture at school by taking into account the dimensions of the
children. A total of 180 (90 male and 90 female) students, from three
primary schools in Thessaloniki, Greece, participated in the study. Their
ages ranged from 7 to 12 years. The following human body dimensions were
measured: stature, elbow height, shoulder height, upper arm length, knee
height, popliteal height and buttock–popliteal length. In addition, the
dimensions were measured for four different types of chairs and five types
of desks prevalent in classrooms. Finally, the anthropometric measures of
the students and the furniture dimensions were compared in order to identify
any incompatibility between them. The data indicate a mismatch between the
students' bodily dimensions and the classroom furniture available to them.
The chairs are too high and too deep and desks are also too high for the
pupils. This situation has negative effects on the sitting posture of the
children especially when reading and writing.},
        address = "{[Accessed in March 2021]}"
}

@article{ELLEGAST2012296,
    title = {Comparison of four specific dynamic office chairs with a
conventional office chair: Impact upon muscle activation, physical activity
and posture},
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    journal = {Applied Ergonomics},
    volume = {43},
    number = {2},
    pages = {296-307},
    year = {2012},
    note = {Special Section on Product Comfort},
    issn = {0003-6870},
    doi = {https://doi.org/10.1016/j.apergo.2011.06.005},
    url =
{https://www.sciencedirect.com/science/article/pii/S0003687011000780},
    author = {Rolf P. Ellegast and Kathrin Kraft and Liesbeth Groenesteijn
and Frank Krause and Helmut Berger and Peter Vink},
    keywords = {Dynamic office chairs, EMG, Posture, Physical activity,
VDU/computer workplace},
    abstract = {Prolonged and static sitting postures provoke physical
inactivity at VDU workplaces and are therefore discussed as risk factors for
the musculoskeletal system. Manufacturers have designed specific dynamic
office chairs featuring structural elements which promote dynamic sitting
and therefore physical activity. The aim of the present study was to
evaluate the effects of four specific dynamic chairs on erector spinae and
trapezius EMG, postures/joint angles and physical activity intensity (PAI)
compared to those of a conventional standard office chair. All chairs were
fitted with sensors for measurement of the chair parameters (backrest
inclination, forward and sideward seat pan inclination), and tested in the
laboratory by 10 subjects performing 7 standardized office tasks and by
another 12 subjects in the field during their normal office work. Muscle
activation revealed no significant differences between the specific dynamic
chairs and the reference chair. Analysis of postures/joint angles and PAI
revealed only a few differences between the chairs, whereas the tasks
performed strongly affected the measured muscle activation, postures and
kinematics. The characteristic dynamic elements of each specific chair
yielded significant differences in the measured chair parameters, but these
characteristics did not appear to affect the sitting dynamics of the
subjects performing their office tasks.},
        address = "{[Accessed in March 2021]}"
}

@article{article,
    author = {Salameh, Dana},
    year = {2020},
    month = {08},
    pages = {4352-4358},
    title = {Design and Analysis of an Ergonomic-Automated Adjustable
Drafting Table},
    url = {http://www.warse.org/IJATCSE/static/pdf/file/ijatcse26942020.pdf}
    volume = {9},
    journal = {International Journal of Advanced Trends in Computer Science
and Engineering},
    doi = {10.30534/ijatcse/2020/26942020},
        address = "{[Accessed in March 2021]}"
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@article{CHAMBERS201937,
    title = {The effect of sit-stand desks on office worker behavioral and
health outcomes: A scoping review},
    journal = {Applied Ergonomics},
    volume = {78},
    pages = {37-53},
    year = {2019},
    issn = {0003-6870},
    doi = {https://doi.org/10.1016/j.apergo.2019.01.015},
    url =
{https://www.sciencedirect.com/science/article/pii/S0003687019300304},
    author = {April J. Chambers and Michelle M. Robertson and Nancy A.
Baker},
    keywords = {Sit-stand desk, Standing desk, Workplace intervention},
    abstract = {This scoping review examines the effects of sit-stand desks
(SSDs) on six domains: behavior (e.g. time sitting and standing),
physiological, work performance, psychological, discomfort, and posture.
Fifty-three articles met criteria. We determined the percentage of
significant results for each domain. Forty-seven studies were experimental
trials. Sample sizes ranged from six to 231 participants. Follow-up time-
frames ranged from one day to one year. Sixty-one percent of behavioral (24
studies), 37% of physiological (28 studies), 7% of work performance (23
studies), 31% of psychological (11 studies), 43% of discomfort (22 studies),
and 18% of posture domain results (4 studies) were significant. We conclude
that SSDs effectively change behaviors, but these changes only mildly effect
health outcomes. SSDs seem most effective for discomfort and least for
productivity. Further study is needed to examine long-term effects, and to
determine clinically appropriate dosage and workstation setup.},
        address = "{[Accessed in March 2021]}"
}

@article{LUISFERREIRA2019207,
title = {Smartification of Home Appliances for Safety Assessment and Risk
Alert},
journal = {IFAC-PapersOnLine},
volume = {52},
number = {10},
pages = {207-211},
year = {2019},
note = {13th IFAC Workshop on Intelligent Manufacturing Systems IMS 2019},
issn = {2405-8963},
doi = {https://doi.org/10.1016/j.ifacol.2019.10.065},
url = {https://www.sciencedirect.com/science/article/pii/S2405896319309206},
author = {Fernando Luis-Ferreira and João Sarraipa and Ricardo Goncalves},
keywords = {Manufacturing, sensors, Integration, Intelligent, positioning
systems, risk, safety analysis},
abstract = {The developments in production processes are a need in times
that require more efficiency, improved costumer engagement and customized
smart solutions. In order to meet such criteria, the fabrication processes
must be adjusted to meet those new requirements and engage in new production
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paradigms. Technology is now able to supply parts and processes for
manufacture of new products as those emerging from the growing
smartification of everything. In that sense, the present research work
targets the process of smartification of furniture pieces and its associated
process of fabrication. 3D printing, sensors and smart devices are all
components of the smartification process that, as proposed in the present
document, will support the development of new smart furniture pieces. The
smartification process consists in enabling such furniture to monitor and
react accordingly to human behaviour by identifying accidents or potential
risks to persons at indoor facilities. The result hereby presented is a
strategy to create smart home appliances that will become smarter than
traditional furniture and thus become able to detect risks and react
accordingly. The behaviour consists in alerting the person or someone
responsible for their safety and assistance, either at home or in a care
facility, to enable prompt response and promote their wellbeing.}
address = "{[Accessed in March 2021]}"
}
@misc{UNITEDNATIONS2018,
    author = {United Nations},
    title = {68% of the world population projected to live in urban areas by
2050, says UN},
    year = 2018,
    url =
{https://www.un.org/development/desa/en/news/population/2018-revision-of-wor
ld-urbanization-prospects.html#:~:text=News-
,68%25%20of%20the%20world%20population%20projected%20to%20live%20in,areas%20
by%202050%2C%20says%20UN&text=Today%2C%2055%25%20of%20the%20world's,increase
%20to%2068%25%20by%202050.&text=The%20urban%20population%20of%20the,to%204.2
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    urldate = {2021-03-26},
    address = "{[Accessed in March 2021]}"
}
@misc{PATRICKCOLLINSON2018,
    author = {Patrick Collinson},
    title = {UK living rooms have shrunk by a third, survey finds},
    year = 2018,
    url =
{https://www.theguardian.com/business/2018/apr/08/uk-living-rooms-have-shrun
k-by-a-third-survey-finds},
    urldate = {2021-03-26},
    address = "{[Accessed in March 2021]}"
}
@Article{VYAS2021,
  author    = {Lina Vyas and Nantapong Butakhieo},
  journal   = {Policy Design and Practice},
  title     = {The impact of working from home during COVID-19 on work and
life domains: an exploratory study on Hong Kong},
  year      = {2021},
  number    = {1},
  pages     = {59-76},
  volume    = {4},
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  abstract  = {AbstractThe pandemic sweeping the world, COVID-19, has
rendered a large proportion of the workforce unable to commute to work, as
to mitigate the spread of the virus. This has resulted in both employers and
employees seeking alternative work arrangements, especially in a fast-paced
metropolitan like Hong Kong. Due to the pandemic, most if not all workers
experienced work from home (WFH). Hence WFH has become a policy priority for
most governments. In doing so, the policies must be made keeping in mind the
practicality for both employers and employees. However, this current
situation provides unique insight into how well working from home works, and
may play a vital role in future policies that reshape the current structure
of working hours, possibly allowing for more flexibility. Using an
exploratory framework and a SWOT analysis, this study investigates the
continuing experience of the employer and employees face in Hong Kong. A
critical insight and related recommendations have been developed for future
policy decisions. It will also critically investigate if this work
arrangement will remain as a transitory element responding to the
exceptional circumstances, or whether it could be a permanent arrangement.},
  doi       = {10.1080/25741292.2020.1863560},
  eprint    = {https://doi.org/10.1080/25741292.2020.1863560},
  publisher = {Routledge},
  url       = {https://doi.org/10.1080/25741292.2020.1863560},
  address = "{[Accessed in March 2021]}"
}
@misc{JOSEMARIABARRERO2020,
    author = {JOSE MARIA BARRERO NICHOLAS BLOOM STEVEN J DAVIS},
    title = {WHY WORKING FROM HOME WILL STICK},
    year = 2020,
    url = {https://osf.io/preprints/socarxiv/wfdbe/},
    doi = {https://doi.org/10.31235/osf.io/wfdbe},
    urldate = {2021-04-14},
    address = "{[Accessed in April 2021]}"
}

@book{project_management_institute_guide_2017,
    address = {Newtown Square, PA},
    edition = {Sixth edition},
    series = {{PMBOK} guide},
    title = {A guide to the project management body of knowledge / {Project}
{Management} {Institute}},
    isbn = {9781628251845},
    abstract = {The PMBOK},
    publisher = {Project Management Institute},
    editor = {{Project Management Institute}},
    year = {2017},
    keywords = {Project management, BUSINESS \& ECONOMICS / Project
Management},
}
@book{10.2307/j.ctt1d2dpw4,
 ISBN = {9780814437360},
 URL = {http://www.jstor.org/stable/j.ctt1d2dpw4},
 abstract = {Fundamentals of Project Managementhas helped generations of
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project managers navigate the ins and outs of every aspect of this complex discipline. But much has changed in recent years. Fully updated in accordance with the latest version of the Project Management Body of Knowledge (PMBOK®), the fifth edition of this classic text remains the perfect introduction to the subject, showing readers how to: Clarify project goals and objectives • Develop a work breakdown structure • Create a project risk plan • Produce a realistic schedule • Manage change requests • Control and evaluate progress at every stage • Lead the project team The book contains new information and expanded coverage on topics including estimating; stakeholder management; procurement management; creating a communication plan; project closure; requirements for PMP certification; and much more. Chock full of tools, techniques, examples, and instructive exercises, this up-to-the-minute guide will help you plan and execute projects on time, on budget-and with maximum efficiency.},
 author = {JOSEPH HEAGNEY},
 edition = {5},
 publisher = {AMACOM Division of American Management Association International},
 title = {Fundamentals of Project Management},
 year = {2016}
}
@misc{ WIKIPEDIA2021,
    author = "{Wikipedia contributors}",
    title = "Our Common Future --- {Wikipedia}{,} The Free Encyclopedia",
    year = "2021",
    url = "https://en.wikipedia.org/wiki/Our_Common_Future},
    address = "{[Accessed in April 2021]"
  }
@misc{ALBERTA2018,
    author = {University of Alberta},
    title = {What is sustainability?},
    year = {2018}
    url = {https://www.mcgill.ca/sustainability/files/sustainability/what-is-sustainability.pdf},
    urldate = {2021-04-01},
    address = "{[Accessed in April 2021]}"
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@book{WALKER2006,
title = "Sustainable by Design: Explorations in Theory and Practice.",
author = "Stuart Walker",
note = "This monograph is the result of ten years research, theoretical exploration and conceptual design in the author's principal research area - sustainability and product design. It remained for many weeks in the top 10 environmental books of Amazon.com, and on the publisher's bestsellers list, and has gone into a second printing. Through critique, reasoned argument, and reflective, propositional design, it builds the case for fundamental systemic change in our conceptions of products, production and our notions of and relationships with material culture. Its originality lies in: a) its design-centred approach whereby conceptual design is an integral and essential element of the research methodology; 'designing' is part of the
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research process and conceptual artefacts are essential to the ongoing critical process, rather than, more conventionally, where designed artefacts are the end result of a process, and b) the critical arguments, informed by designing, step beyond the traditional areas of concern ' such as energy and materials efficiencies and life cycle assessment to embrace social, philosophical, religious and subjective/intuitive considerations. The work is significant as it consolidates and develops the author's extensive research and scholarly publications, and it has been highly influential in leading to many keynote addresses, specifically the Donck Sessions, Rotterdam, June 2007 - three keynote talks and an evening workshop to 45 top business leaders in The Netherlands; guest consultant and book signing at 100% Design at Earl's Court, London, September 2007; a keynote addresses at Arizona State University, Octoer 2007; and a public lecture and workshop at the University of Eindhoven, Oct. 2007. This book also led to an invitation to contribute a chapter to Designers, Visionaries and Other Stories, Earthscan/James and James Science Publishers, 2007. It was reviewed in the e-journal 'Value Created Review', Canada's e-journal for contemporary furniture design and sustainable SMEs
http://www.valuecreatedreview.com/news89.htm accessed: September 26th 2006
RAE_import_type : Authored book RAE_uoa_type : LICA",
year = "2006",
language = "English",
isbn = "978-1844073535",
publisher = "Earthscan / James and James Science Publishers, London",
}
@Article{LU2014,
  author    = {Lu, J. and Cui, H. and Bragança, Luís and Vieira, Susana M. and Andrade, Joana B.},
  journal   = {The Scientific World Journal},
  title     = {Early Stage Design Decisions: The Way to Achieve Sustainable Buildings at Lower Costs},
  year      = {2014},
  issn      = {2356-6140},
  pages     = {365364},
  volume    = {2014},
  abstract  = {The construction industry attempts to produce buildings with as lower environmental impact as possible. However, construction activities still greatly affect environment; therefore, it is necessary to consider a sustainable project approach based on its performance. Sustainability is an important issue to consider in design, not only due to environmental concerns but also due to economic and social matters, promoting architectural quality and economic advantages. This paper aims to identify the phases through which a design project should be developed, emphasising the importance and ability of earlier stages to influence sustainability, performance, and life cycle cost. Then, a selection of sustainability key indicators, able to be used at the design conceptual phase and able to start predicting environmental sustainability performance of buildings is presented. The output of this paper aimed to enable designers to compare and evaluate the consequences of different design solutions, based on preliminary data, and facilitate the collaboration between stakeholders and clients and eventually yield a sustainable and high performance building
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throughout its life cycle.},
  doi       = {10.1155/2014/365364},
  publisher = {Hindawi Publishing Corporation},
  url       = {https://doi.org/10.1155/2014/365364},
}
@misc{MDC2019,
    author = {MDC-UM},
    title = {Sustainable Furniture in Modern World},
    year = 2019,
    url =
{https://mdc-um.com/how-to-find-eco-friendly-sustainable-furniture-in-the-mo
dern-world/},
    urldate = {2021-04-04},
    address = "{[Accessed in April 2021]}"
}
@misc{IKEA2020,
    author = {IKEA},
    title = {Climate footprint from production},
    year = 2020,
    url =
{https://about.ikea.com/en/sustainability/value-chain-climate-
footprint#:~:text=By%20turning%20wood%20waste%20from,energy%20for%20the%20ma
ny%20people.},
    urldate = {2021-04-04},
    address = "{[Accessed in April 2021]}"
}
@incollection{PECAS2019,
title = {Chapter 1 - Methodology for Selection and Application of Eco-
Efficiency Indicators Fostering Decision-Making and Communication at Product
Level—The Case of Molds for Injection Molding},
editor = {Mangey Ram and J. {Paulo Davim}},
booktitle = {Advanced Applications in Manufacturing Enginering},
publisher = {Woodhead Publishing},
pages = {1-52},
year = {2019},
isbn = {978-0-08-102414-0},
doi = {https://doi.org/10.1016/B978-0-08-102414-0.00001-X},
url =
{https://www.sciencedirect.com/science/article/pii/B978008102414000001X},
author = {Paulo Peças and Uwe Götze and Rita Bravo and Fanny Richter and
Inês Ribeiro},
keywords = {eco-efficiency, environment, indicator, injection molding, life
cycle, sustainability, value},
abstract = {Eco-efficiency is a prominent as well as promising approach for
fostering sustainability by assessing the environmental impact and value of
companies’ activities simultaneously. A lot of indicators to assess both
pillars—environmental and economic effects—are presented in different
standards and guidelines. This chapter develops a methodology for selecting
and applying indicators for the application of eco-efficiency to support
decision-making, internal, and external communication at product level. The
chapter starts with outlining the motivation and presenting a brief
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literature review as well as the intended contribution. Thereafter, the
methodology for the stepwise selection of a manageable number of relevant
and significant eco-efficiency indicators and the generation of the value
and environmental profiles as well as eco-efficiency ratios of products are
suggested. The methodology is developed against the background of the mold
manufacturing and plastic injection molding sector. A case study referring
to molds for injection molding demonstrates its application and results.}
}
@incollection{CUCEK2015,
title = {Chapter 5 - Overview of environmental footprints},
editor = {Jiří Jaromír Klemeš},
booktitle = {Assessing and Measuring Environmental Impact and
Sustainability},
publisher = {Butterworth-Heinemann},
address = {Oxford},
pages = {131-193},
year = {2015},
isbn = {978-0-12-799968-5},
doi = {https://doi.org/10.1016/B978-0-12-799968-5.00005-1},
url =
{https://www.sciencedirect.com/science/article/pii/B9780127999685000051},
author = {Lidija Čuček and Jiří Jaromír Klemeš and Zdravko Kravanja},
keywords = {Environmental footprints, Environmental indicators, Life cycle
assessment, Multi-objective optimisation, Sustainable development, Total
Footprints},
abstract = {With climate change and other negative environmental impacts,
there is an increased interest in measuring and reducing environmental
burdens. However, the question is how to measure and reduce environmental
burdens. Recently, the researchers, organizations, policy-makers, and others
are putting forth efforts to develop concepts and metrics measuring
environmental sustainability. Among those concepts and metrics,
environmental footprints are gaining increasing popularity and play an ever-
increasing role in sustainability evaluation and research. Footprints have
become ubiquitous for researchers, policy-makers, and the general public.
Over the past years, carbon footprint has been used as an environmental
protection indicator almost exclusively. Evaluations have moved to include a
variety of other footprints; however, there is no generally accepted
footprint or footprint family that represents the overall impact on the
environment. This chapter gives an overview of environmental footprints as
indicators defined to date (June 2014) that can be used to measure
sustainability for environmental decision-making.}
}
@misc{MBN2020,
    author = {MBN},
    title = {What is eco-efficiency?},
    year = 2020,
    url = {https://marketbusinessnews.com/financial-glossary/eco-
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    urldate = {2021-04-04},
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isbn = {978-0-12-088441-4},
doi = {https://doi.org/10.1016/B978-012088441-4/50015-0},
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abstract = {Publisher Summary
This chapter discusses some environmental solutions for rural communities
and developing countries. Most of the countries (developed and developing
countries) are working toward zero pollution not only in industrial sectors
but also in vehicle emissions to reduce the gaseous emissions to the
allowable limits, as well as other sectors such as construction sector and
agricultural sector. To approach zero pollution, the industry has to prevent
all pollutants from its effluent. One of the major problems facing
developing countries is the cost of environmental protection and its return.
The current practice of agricultural waste, municipal solid waste,
industrial waste, municipal waste water, etc., can be considered disastrous
all over rural communities and developing countries. Thus, any solution
should suit the rural communities and developing countries, and should
include the economical benefits, technological availability, and
environmental and social perspectives, to become sustainable. The
environmental and health impacts of landfill and incineration are becoming
more dangerous and disaster for developing countries and rural communities.
Establishing industrial ecology within the industrial activity will avoid
landfill, incineration, and treatment; can help in full utilization of raw
material; and consider the waste as a by-product.}
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author = {Stephen Gent and Michael Twedt and Christina Gerometta and Evan
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keywords = {Torrefaction, Environmental implication, Life Cycle Analysis
(LCA), Torrefied biomass, Emission, Sustainability, Risk assessment},
abstract = {When considering any new technology, one must be cognizant of
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the environmental implications of the technology once it is implemented.
This is especially important when pursuing technologies that can cause a
paradigm shift in producing energy and other products. If we explore the
history of game-changing technologies that have impacted the manner in which
societies live, work, and transport themselves, they all have had positive
and negative consequences. Examples of technologies that caused significant
paradigm shifts include motorized transportation, globalized manufacturing,
resource mining and harvesting, computing and communication, among others.}
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estimated, and successfully completed. This has proven incorrect in
practice. SCRUM assumes that the systems development process is an
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overall progression. SCRUM defines the systems development process as a
loose set of activities that combines known, workable tools and techniques
with the best that a development team can devise to build systems. Since
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