

# National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

## Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

My research work includes broadly in material joining and forming processes. Studies like forming of monolithic sheet metal, adhesive bonded sheets, sandwich sheets, friction stir welded blanks, forming of multilayered sheets fabricated by hybrid joining methods, and their spring back and wrinkling behaviour, modelling of interface bonding in adhesive bonded sheets, numerical simulation of constitutive mechanical behaviour, forming limits, and deep drawability of bonded and welded sheets, application of neural network in sheet metal forming, mechanical behavior of various adhesive systems, and polymer composites. Long back, a few studies were carried out in cellular manufacturing for solving real time industrial problems. Recently, we have started an investigation on polymer composite spur gears funded by SERB-DST, India.

1. Name: Dr SATHEESHKUMAR V
2. Designation: Assistant Professor
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6. Field(s) of Specialization:
7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Trichy, India	11 <sup>th</sup> April 2018	Till date
Assistant Professor	Dr B R Ambedkar NIT Jalandhar, India	01 <sup>st</sup> February 2018	10 <sup>th</sup> April 2018
Assistant Professor	Amrita Vishwa Vidyapeetham, Coimbatore, India	03 <sup>rd</sup> August 2015	25 <sup>th</sup> January 2018
Assistant Professor	Dr B R Ambedkar NIT Jalandhar, India	09 <sup>th</sup> January 2015	05 <sup>th</sup> June 2015

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### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	IIT Guwahati	2015		Manufacturing Engineering
M.E (Manufacturing Engineering)	Sri Ramakrishna Engineering College, Anna University	2010	1 <sup>st</sup> class with Distinction-Gold Medal	Manufacturing Engineering
B.E (Mechanical Engineering)	Sri Ramakrishna Engineering College, Anna University	2007	1 <sup>st</sup> class with Distinction	Mechanical Engineering
Higher Secondary Course (HSC)	PSG Sarvajana Hr.Sec.School	2003	1 <sup>st</sup> class	Mathematics, Physics, Chemistry, and Computer Science
Secondary School Leaving Certificate (SSLC)	PSG Sarvajana Hr.Sec.School	2001	1 <sup>st</sup> class	Mathematics and Basic Science

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Member	Media & Public Relations	07/05/2018	Till Date
Member	Advanced Manufacturing Lab, SIEMENS and AMAR TECH.	28/05/2018	Till Date

### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
-Nil-			

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
May 2018	Early Career Research Award	SERB-DST, India
September 2013	International Travel grant for attending 16th International conference on Advances in Materials and Processing	SERB-DST, India

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	Technologies in Taiwan	
March 2011	Smt. Saradhamani Ammal Memorial Gold Medal (For securing first rank at the autonomous Examinations in M.E-Manufacturing Engineering)	Sri Ramakrishna Engineering College, Tamil Nadu, India

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2010	Research fellowship	Ministry of Human Resource Development (MHRD), India	July 2010	December 2014

13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii) Projects guided at Postgraduate level - 04 (Up to 2017)
- (iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Development of tailor made spur gears for light weight and heavy duty power transmission systems	Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India	03/05/2018	3 years	Sanctioned

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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
-Nil-			

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
05-07 November 2016	Symposium on Deformation and Fracture by Prof. K. K. Ray, The 4th International Conference on Advances in Materials and Processing	International	Contributory Speaker	Prof. K. K. Ray	Department of Metallurgical and Materials Engineering, IIT Kharagpur, India
January 19-21, 2017	International Conference on Advances in Materials and Manufacturing (ICAMM 2017)	International	Paper presenter	National Institute of Foundry and Forge Technology	National Institute of Foundry and Forge Technology, Ranchi, India
19-21 Dec 2016	4th International conference on Production and Industrial Engineering, CPIE-2016	International	Paper presenter	Department of Industrial and Production Engineering	Dr.B.R. Ambedkar National Institute of Technology Jalandhar, India
05-07 December 2014	23 <sup>rd</sup> International conference on Processing and Fabrication of Advanced Materials	International	Paper presenter	Department of Mechanical and Industrial Engineering	IIT Roorkee, India

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9-11 January 2014	International Conference on Advances in Mechanical Sciences (ICAMS)	International	Paper presenter	Department of Mechanical Engineering	Vardhaman Engineering College, Andhra Pradesh, India
22-26 September 2013	16 <sup>th</sup> International conference on Advances in Materials and Processing Technologies	International	Paper presenter	National Taiwan University of Science and Technology and the SME, Taipei Chapter	Taipei, Taiwan
25-29 November 2012	International Deep drawing Research Group (IDDRG) 2012	International	Paper presenter	Department of Metallurgical and Materials Science	IIT Bombay, Mumbai, India
08-09 April 2010	1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	International	Paper presenter	Department of Mechanical Engineering	Noorul Islam University, Tamil Nadu, India
13-15 December 2009	SAE International mobility congress, 2009	International	Paper presenter		Chennai, India
06-11 June 2016	Green material forming and joining	National	Participant	Indian Institute of Technology Guwahati	Guwahati, India
21-22 November 2015	Workshop on Advanced Gear Engineering	National	Participant	Indian Institute of Technology Guwahati, Guwahati, India	Guwahati, India
15-16 December 2014	Workshop on Advanced machining and finishing processes	National	Participant	Indian Institute of Technology Guwahati, Guwahati, India	Guwahati, India

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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Challenges and Sustainable Solutions for Rural India	National	March 09, 2017	Organizing Secretary	Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Coimbatore, India
Design Thinking	National	July 10-13, 2017	Organizing Secretary	Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Coimbatore, India

18. Invited Talks delivered

Topic	Date	Inviting Organization
Green and Sustainable developments in Manufacturing Engineering	30 <sup>th</sup> March 2017	Department of Mechanical Engineering, <b>Rohini College of Engineering and Technology, Kanyakumari, Tamil Nadu, India</b>
Assessment of formability of adhesive bonded sheets through neural network <b>(Contributory Talk)</b>	November 5-7, 2016	The 4 <sup>th</sup> International Conference on Advances in Materials and Materials Processing”, symposium on “Deformation and Fracture”, <b>IIT Kharagpur, India</b>

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Life Member	Sheet Metal Forming and Research Association (SMFRA)	Since 2016

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20. Academic Foreign Visits

Country	Duration of Visit	Programme
Taiwan	September 22-26, 2013	16th International conference on Advances in Materials and Processing Technologies

21. Publications

(A) Refereed Research Journals:

Author (s)	Title of the paper	Journal	Vol. No.	Page No.	Year	Impact Factor
Arjun Ramesh and <b>V. Satheeshkumar</b>	Formability of Metal Foam Cored Sandwich Steel Sheets	Materials Today: Proceedings	In Press	-	2018	-
Sandeep V and <b>Satheeshkumar V</b>	Formability of asphalt assisted adhesive bonded steel sheets	Materials Today: Proceedings	In Press	-	2018	-
<b>Satheeshkumar V</b> , Ganesh Narayanan R, Deepak Sharma	Prediction of formability of adhesive bonded sheets through neural network	International Journal of Mechatronics and Manufacturing Systems	10(4)	321-354	2017	-
<b>Satheeshkumar V</b> , Ganesh Narayanan R	Predicting the deep drawing behaviour of adhesive bonded sheets using equivalent geometrical heterogeneities	International Journal of Computational Materials Science and Engineering	06	1750018-1750033	2017	-
<b>Satheeshkumar V</b> , Ganesh Narayanan R	Predicting the tensile behaviour of adhesive bonded sheets using equivalent geometrical heterogeneities	International Journal of Material Forming	9(5)	663–675	2016	1.978
<b>Satheeshkumar V</b> , Ganesh Narayanan R	Experimental evaluation and prediction of formability of adhesive bonded steel sheets at different adhesive	Journal of Testing and Evaluation	44 (3)	1–13	2016	0.389

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	properties					
<b>Satheeshkumar V,</b> Ganesh Narayanan R	Forming performance of adhesive bonded steel sheets reinforced with metallic wires	Welding in the World - The International Journal of Materials Joining	59(6)	883-900	2015	0.948
<b>Satheeshkumar V,</b> Ganesh Narayanan R	Experimental evaluation and prediction of deep drawability of adhesive bonded blanks	Materialwissenschaft und Werkstofftechnik (Materials Science and Technology)	46(7)	713–735	2015	0.524
<b>Satheeshkumar V,</b> Ganesh Narayanan R	Prediction of formability of adhesive bonded steel sheets and experimental validation	Archives of Civil and Mechanical Engineering	15(1)	31–40	2015	2.216
<b>Satheeshkumar V,</b> Ganesh Narayanan R	In-plane plane-strain formability of adhesive bonded steel sheets: Influence of adhesive properties	International Journal of Advanced Manufacturing Technology	76(5)	993-1009	2015	2.209
<b>Satheeshkumar V,</b> Ganesh Narayanan R	Formability of adhesive bonded steel sheets with artificial finite adhesive defects	Journal of Strain Analysis for Engineering Design	49(5)	286–300	2014	1.222
<b>Satheeshkumar V,</b> Ganesh Narayanan R	Investigation on the influence of adhesive properties on the formability of adhesive bonded steel sheets	Proc IMechE Part C: J Mechanical Engineering Science	228(3)	405–425	2014	1.015
<b>V. Satheeshkumar, R.</b> Ganesh Narayanan	Influence of pre-generated infinite adhesive defects on the forming behaviour of adhesive bonded steel sheets	Advanced Materials Research	939	328–335	2014	-

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D. Doley, V. <b>Satheeshkumar</b> , R. Ganesh Narayanan	Influence of wire reinforcement on the forming behaviour of adhesive bonded steel sheets	Advanced Materials Research	939	336–341	2014	-
Thomas Renald, K.Sathiyalingam, <b>V.Satheeshkumar</b> , S.Shanavas, T.Govindasamy	An alternate approach for geometrical construction of subsonic airfoil with numerical investigation	Procedia Engineering	38	1758–1763	2012	-
K.Sathiyalingam, C.J.Thomas Renald, R.Manikandan, R.Sivakumar, T.Arun Kumar, S.Shanavas, <b>V.Satheeshkumar</b>	Prediction and measurement of pressure distribution over a compressor blade through a cascade studies	Procedia Engineering	38	2657–2662	2012	-
<b>V.Satheeshkumar</b> , C.J.Thomas Renald, M.Thiagarajan, G.K. Sathiyamanoj	An optimal solution through lean manufacturing using value stream mapping towards efficient production for a world- class automobile brakes manufacturing company	SAE International	<b>doi:</b> 10.4271/2009-28-0054	-	2009	-
Thomas Renald C.J., <b>Satheeshkumar V</b>	Investigation of the LPG induction jet angle with injector nozzle angle in a dual fuel diesel engine using CFD technique	SAE International	<b>doi:</b> 10.4271/2009-28-0040	-	2009	-

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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
<b>Satheeshkumar V,</b> Ganesh Narayanan R	Assessment of formability of adhesive bonded steel sheets by geometrical heterogeneities	Proceedings of International Conference on Advances in Materials and Manufacturing (ICAMM 2017)	9-14	Advances in Materials and Manufacturing	National Institute of Foundry and Forge Technology, Ranchi, India	2017
Sai Aditya G, <b>Satheeshkumar V</b>	Influence of filler material properties on adhesive towards sustainable manufacturing processes	Proceedings of 4th International conference on Production and Industrial Engineering, CPIE-2016	Paper ID: CPIE-2016_333 (1-5)	Production and Industrial Engineering	Dr.B.R. Ambedkar National of Institute of Technology Jalandhar, India	2016
Pragatheswaran T, <b>Satheeshkumar V</b>	Metal powder reinforcement in friction stir welded blanks towards improvement in mechanical properties	Proceedings of 4th International conference on Production and Industrial Engineering, CPIE-2016	Paper ID: CPIE-2016_334, (1-7)	Production and Industrial Engineering	Dr.B.R. Ambedkar National of Institute of Technology Jalandhar, India	2016
<b>Satheeshkumar V,</b> Ganesh Narayanan R	Experimental evaluation of deep drawability of adhesive bonded steel sheets	Proceedings of 23 <sup>rd</sup> International conference on Processing and Fabrication of Advanced Materials	1026–1032	Processing and Fabrication of Advanced Materials	IIT Roorkee, India	2014
<b>V.Satheeshkumar,</b> K.Karthikeyan, C.J.Thomas Renald, V.Jagadeesh, R.Silambarasan, C.Bhagyanathan	Evaluation of cell formation algorithms and implementation of MOD-SLC algorithm as an effective cellular manufacturing	Proceedings of International Conference on Advances in Mechanical Sciences (ICAMS)	179–187	Advances in Mechanical Sciences (ICAMS)	Vardhaman Engineering College, Andhra Pradesh, India	2014

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	system in a manufacturing industry					
<b>Satheeshkumar V., Ganesh Narayanan R</b>	Forming behaviour of adhesive bonded steel sheets: Influence of finite defects in the adhesive layer	Proceedings of 16 <sup>th</sup> International conference on Advances in Materials and Processing Technologies	Paper ID: 257	Advances in Materials and Processing Technologies	Taipei, Taiwan	2013
<b>Satheeshkumar V., Ganesh Narayanan R</b>	Influence of pre-generated infinite adhesive defects on the forming behaviour of adhesive bonded steel sheets	Proceedings of 16 <sup>th</sup> International conference on Advances in Materials and Processing Technologies	Paper ID: 258	Advances in Materials and Processing Technologies	Taipei, Taiwan	2013
Doley D, <b>Satheeshkumar V,</b> Ganesh Narayanan R	Influence of wire reinforcement on the forming behaviour of adhesive bonded steel sheets	Proceedings of 16 <sup>th</sup> International conference on Advances in Materials and Processing Technologies	Paper ID: 359	Advances in Materials and Processing Technologies	Taipei, Taiwan	2013
<b>Satheeshkumar V,</b> Ganesh Narayanan R	Experimental investigation on the influence of adhesive properties on forming behaviour of adhesive bonded steel sheets	Proceedings of International Deep drawing Research Group (IDDRG) 2012	508–513 (PART-II)	Advances in metal forming	IIT Bombay, Mumbai, India	2012
V.Jagadeesh, <b>V.Satheeshkumar,</b> M.Thiagarajan, C.J.Thomas Renald, S.Arun	Comparative analysis and implementation of an efficient cellular manufacturing technique in a manufacturing industry	Proceedings of 2 <sup>nd</sup> National Conference on Recent Advances in Mechanical Engineering	400–408	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2011

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C.J.Thomas Renald, <b>V.Satheeshkumar</b> , T.Govindasamy, S.Shanavas	Analysis of Karmann-Treffz Airfoil Construction	Proceedings of 2 <sup>nd</sup> National Conference on Recent Advances in Mechanical Engineering	209–216	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2011
M.Ravi Varma, M.Sibi Prasad, S.Ranjith kumar, P.A.Rangesh, M.Thiagarajan, <b>V.Satheeshkumar</b> , C.J.Thomas Renald	Experimental investigation and prediction on effect of power over flow velocity behaviour in the wind tunnel	Proceedings of 2 <sup>nd</sup> National Conference on Recent Advances in Mechanical Engineering	392–399	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2011
G.K.Sathiyamanoj, M.S.Bala Santhosh, <b>V.Satheeshkumar</b> , M.Thiagarajan, C.J.Thomas Renald, P.Dineshababu, K.Karthikeyan	An effective comparison of cellular manufacturing techniques and implementation in a manufacturing industry	Proceedings of 3 <sup>rd</sup> International and 24 <sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR)	719–725	Manufacturing Technology	Andhra University College of Engineering (A), Andhra Pradesh, India	2010
<b>V.Satheeshkumar</b> , C.J.Thomas Renald, M.Thiagarajan, G.K.Sathiyamanoj, P.Dinesh Babu, K.Karthikeyan, C.Bagyanathan	Nanomaterials – A Pessimistic Approach	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.1, 740–745	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010
C.J.Thomas Renald, <b>V.Satheeshkumar</b> , K.Karthikeyan, M.Thiagarajan, P.Dineshababu, G.K.Sathiyamanoj	Experimental and numerical investigation of mixing of four planar parallel jets	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.2, 195–200	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010
M.Thiagarajan, P.Dineshababu, M.Ramesh, <b>V.Satheeshkumar</b> , C.J.Thomas Renald,	3D digitizing technique – A boon in reverse engineering with increase in	Proceedings of 1 <sup>st</sup> International conference on Recent	Vol.1, 132–138	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010

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G.K.Sathiyamanoj, K.Karthikeyan, N.Srimath	accuracy	Advances in Mechanical Engineering				
<b>V.Satheeshkumar</b> , M.Thiagarajan, C.J.Thomas Renald, R.Silambarasan, P.Dineshababu, G.K.Sathiyamanoj	Cell formation algorithms – an effective implementation of cellular manufacturing system in a manufacturing industry	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.1, 139–151	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010
C.J.Thomas Renald, P.Somasundaram, <b>V.Satheeshkumar</b> , M.Ramesh	The feasibility of utilizing bio-diesel with diesel fuel- an experimental investigation	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.2, 55–61	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010
<b>V.Satheeshkumar</b> , C.J.Thomas Renald, B.Deepak Sivanandh, R.Poomagan	Investigation of surface roughness on Al-Li 8090 alloy CNC turned material	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.1	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010
S.Srinivasan, R.Devaraja Vignesh, P.Somasundaram, C.J.Thomas Renald, <b>V.Satheeshkumar</b>	Drag reduction in an automobile by conical cup attachment using CFD techniques	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.2, 354–358	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010
M.Rammohan, K.Padmanaban, M.Abbilash, C.J.Thomas Renald, <b>V.Satheeshkumar</b>	2-D CFD Analysis on a Convergent-Divergent nozzle used in light combat aircrafts	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.2, 346–349	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010
<b>V.Satheeshkumar</b> , C.Natarajan	Prediction of Surface Characteristics	Proceedings of 1 <sup>st</sup> International	Vol.1, 729–735	Recent Advances in Mechanical	Noorul Islam University,	2010

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	on Al-Li 2090 alloy material in CNC Turning Operation	conference on Recent Advances in Mechanical Engineering		Engineering	Tamil Nadu, India	
C.J.Thomas Renald, P.Somasundaram, <b>V.Satheeshkumar</b>	Comparison study of secondary fuels by fixing the jet angle in a dual fuelled CI engine by using CFD techniques	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.2, 62–70	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010
S.Srinivasan, R.Devaraja Vignesh, P.Somasundaram, C.J.Thomas Renald, <b>V.Satheeshkumar</b>	Investigations on a symmetrical airfoil at various angles of attack by using CFD techniques	Proceedings of 1 <sup>st</sup> International conference on Recent Advances in Mechanical Engineering	Vol.2, 350–353	Recent Advances in Mechanical Engineering	Noorul Islam University, Tamil Nadu, India	2010

**(C) Books & Monographs**

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
<b>Satheeshkumar V</b> , Ganesh Narayanan R	Chapter 12, Mechanical Joining Processes, Sustainable Material Forming and Joining	Taylor and Francis	2018	In Press
<b>Satheeshkumar V</b> , Ganesh Narayanan R	Chapter 13, Hybrid Joining Processes, Sustainable Material Forming and Joining	Taylor and Francis	2018	In Press
<b>Satheeshkumar V</b> , Avinash Kumar Yadav, Ganesh Narayanan R	Chapter 4, Formability Prediction and Springback Evaluation of Adhesive-Bonded Steel Sheets, Advances in Material Forming and Joining	Springer India	2015	ISBN: 978-81-322-2355-9