

## Eigenvalue Solutions for Euler-Bernoulli Beams on Two-Parameter Foundations Using Stodola-Vianello Iteration Method and Polynomial Basis Functions

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**ABSTRACT :** The critical buckling load determination of axially compressed simply supported Euler-Bernoulli beams rested on two-parameter foundations (EBBo2PF) of Filomenko-Borodich, Pasternak or Vlasov is important for their analysis and design. This work uses the Stodola-Vianello iteration method to formulate the governing domain equation, and constructs a fourth degree polynomial shape function that satisfies the simply supported ends. By substitution of the derived polynomial basis function in the Stodola-Vianello iterations and use of boundary conditions, the four constants of integration in the algebraic formulation are calculated. The requirement for convergence of the iteration at the first iteration is used to establish the buckling equation, whose roots yield the eigenvalue from which the critical buckling load is derived. The critical buckling load expression is found to depend upon the two beam-foundation parameters  $\beta_1 l^4$  and  $\beta_2 l^2$ ; and presented in tabulated forms for given values of the foundation parameters. The critical buckling load solution obtained in this study showed insignificant difference of less than 0.075% from the previously reported solution by Arghel and Mares for all values of the foundation parameters. It is further found that when the second foundation parameter  $\beta_2$  vanishes the buckling load becomes identical to the critical buckling load for Euler-Bernoulli beams on Winkler foundations, EBBoWF.

**KEYWORDS** Euler-Bernoulli beam on two-parameter foundation, eigenvalue, critical buckling load, characteristic buckling equation Stodola-Vianello iteration method.

Date of Submission: 08-11-2023

Date of acceptance: 10-11-2023

### 1. INTRODUCTION

Several problems in structural and foundation engineering can be analyzed as beam on elastic foundation problems. Such problems are formulated using the theories of beams and elastic foundations. They are complex soil structure interaction problems and certain other engineering problems have analogous equations and can be solved via the beam on elastic foundation approach (Dutta et al, 2021). In such problems, the structural footing beam and the soil are required to act together in supporting the loads (Dutta et al, 2021). The theories of beams have been derived by Euler and independently by Bernoulli, Timoshenko, Levinson (1981), Sayyad and Ghugal (2011), Dabake and Ghugal (2013) and several other researchers.

Similarly, elastic foundation theories have been developed by Winkler, Pasternak, Vlasov, Filomenko and Borodich and Hetenyi (1946). Euler and Bernoulli working independently used orthogonality hypothesis of cross-sectional planes normal to the longitudinal axis of the beam before deformation would retain plane and normal to the longitudinal axis after deformation to develop the classical beam theory now credited to them and called the Euler-Bernoulli beam theory (EBBT) (Emadi et al 2023). The normality assumption implies that transverse shear deformation is neglected, thus limiting the scope of application of the EBBT to thin plates for

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*Advances in the Statistical Sciences: Foundations of Statistical Inference* I.B. MacNeill, G. Umphrey, 2012-12-06 On May 27-31 1985 a series of symposia was held at The University of Western Ontario London Canada to celebrate the 70th birthday of Professor V M Joshi These symposia were chosen to reflect Professor Joshi's research interests as well as areas of expertise in statistical science among faculty in the Departments of Statistical and Actuarial Sciences Economics Epidemiology and Biostatistics and Philosophy From these symposia the six volumes which comprise the Joshi Festschrift have arisen The 117 articles in this work reflect the broad interests and high quality of research of those who attended our conference We would like to thank all of the contributors for their superb cooperation in helping us to complete this project Our deepest gratitude must go to the three people who have spent so much of their time in the past year typing these volumes Jackie Bell Lise Constant and Sandy Tarnowski This work has been printed from camera ready copy produced by our Vax 785 computer and QMS Lasergraphix printers using the text processing software TEX At the initiation of this project we were neophytes in the use of this system Thank you Jackie Lise and Sandy for having the persistence and dedication needed to complete this undertaking [The Missing Link](#) Roy Abraham Varghese, 2013 [The Missing Link](#) blazes a unique trail through the conundrums and controversies generated by evolutionary theory and religious thought To date these debates have centered on the origin of species This book however turns the spotlight on the origins of consciousness thought and the self while also considering the relationship between God and science Remarkably Darwin himself highlighted the relevance of the origin of consciousness to the question of a creator Therefore [The Missing Link](#) works within a framework that was laid out at the dawn of the creation evolution debate Since that time however this framework has rarely been considered or explored The unifying theme of this volume is the conclusion that the existence of God is grounded in rational thought Contributors to [The Missing Link](#) include three Nobel Prize winners renowned scientists from Oxford Cambridge and Harvard and noted contemporary philosophers of consciousness language and the self **Language, Logic, and Concepts** Ray Jackendoff, Paul Bloom, Karen Wynn, 2002 A wide ranging collection of essays inspired by the memory of the cognitive psychologist John Macnamara **Handbook of Research Methods in Abnormal and Clinical Psychology** Dean McKay, 2008 The Handbook of Research Methods in Abnormal and Clinical Psychology presents a diverse range of areas critical to any researcher or student entering the field It provides valuable information on the foundations of research methods including validity in experimental design ethics and statistical methods The contributors discuss design and instrumentation for methods that are particular to abnormal and clinical psychology including behavioral assessment

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Partial Identification in Econometrics and Related Topics Nguyen Ngoc Thach, Nguyen Duc Trung, Doan Thanh Ha, Vladik Kreinovich, 2024-07-31 This book covers data processing techniques with economic and financial application being the unifying theme To make proper investments in economy the authors need to have a good understanding of the future trends how will demand change how will prices change etc In general in science the usual way to make predictions is to identify a model that best fits the current dynamics and to use this model to predict the future behavior In many practical situations especially in economics our past experiences are limited As a result the authors can only achieve a partial identification It is therefore important to be able to make predictions based on such partially identified models which is the main focus of this book This book emphasizes partial identification techniques but it also describes and uses other econometric techniques ranging from more traditional statistical techniques to more innovative ones such as game theoretic approach interval techniques and machine learning Applications range from general analysis of GDP growth stock market and consumer prices to analysis of specific sectors of economics credit and banking energy health labor tourism international trade to specific issues affecting economy such as ecology national culture government regulations and the existence of shadow economy This book shows what has been achieved but even more important are remaining open problems The authors hope that this book will inspire practitioners to learn how to apply state of the art techniques especially techniques of optimal transport statistics to economic and financial problems and inspire researchers to further improve the existing techniques and to come up with new techniques for studying economic and financial phenomena The authors want to thank all the authors for their contributions and all anonymous referees for their thorough analysis and helpful comments The publication of this book and organization of the conference at which these papers were presented was supported by the Ho Chi Minh University of Banking HUB Vietnam and by the Vingroup Innovation Foundation VINIF The authors thank the leadership and staff of HUB and VINIF for providing crucial support

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